



MODERN EDUCATION SOCIETY, PUNE
The **D. G. Ruparel College**
OF ARTS, SCIENCE AND COMMERCE

NAAC RE-ACCREDITATION 3RD CYCLE
SELF STUDY REPORT

Table of Contents

NAAC Steering Committee	i
Executive Summary	iv - vi
Profile of the Institution	I - XI
Criterion 1: Curricular Aspects	1 - 15
Criterion 2: Teaching - Learning and Evaluation	16 - 70
Criterion 3: Research, Consultancy and Extension	71 - 104
Criterion 4: Infrastructure and Learning Resources	105 - 126
Criterion 5: Student Support and Progression	127 – 157
Criterion 6: Governance, Leadership and Management	158 - 179
Criterion 7: Innovations and Best Practices	180 - 185
Post Accreditation Initiatives	186 - 188
Evaluative Reports of Departments	189 - 318
Annexures 1 - 9	

NAAC STEERING COMMITTEE

1. Dr. Tushar Desai	Principal
2. Dr. Neeta Tatke (<i>IQAC Co-ordinator</i>)	Co-ordinator
3. Dr. Jyoti Patil	Member
4. Ms. Gayatri Gadgil	Member
5. Mr. Nitin Wasnik	Member
6. Ms. Deepali Bhide	Member
7. Mr. Avinash Kolhe	Member
8. Mr. Mandar Bhawe	Member

Certificate of Compliance

This is to certify that D. G. Ruparel College of Arts, Science and Commerce, Mahim, Mumbai 400016 fulfils all norms

1. Stipulated by the affiliating University and / or
2. Regulatory Council / Body (such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.) and
3. The affiliation and Recognition is valid as on date.
4. In case the affiliation / recognition is withdrawn by the authority concerned the same will be informed to NAAC immediately. In case the affiliation / recognition is conditional then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or recognition by the regulatory council as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn.

It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Principal
(Dr. Tushar Desai)

Place: Mumbai
Date: 30 / 06 / 2016

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report is true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in the SSR during the peer team visit.

Principal
(Dr. Tushar Desai)

Place: Mumbai
Date: 30 / 06 / 2016

Executive Summary

Doongarsee Gangjee Ruparel College, established in 1952 by the Modern Education Society (Pune), is renowned as one of the foremost institutions of higher education in Mumbai. Our constant quest for excellence in education is reflected in the high scores of our students in the University examinations as well as in the fact that our students progress to occupying eminent positions in varied fields ranging from research and defence services to the industry and the media.

The College offers a variety of undergraduate, postgraduate and doctoral programmes. In addition to the conventional programmes like BA, BSc and BCom, students can opt for professional courses like Bachelor of Management Studies and BSc and MSc in Information Technology and Computer Science. The newly introduced MCom course and the additional divisions at BCom and MCom reflect our awareness of the changing demands of the students.

Teachers of the College actively participate in the development and revision of various syllabi at the University level. By encouraging the students to *learn beyond the classroom*, they ensure that the learning keeps pace with the changing global milieu. **Student-centric teaching** practices are enhanced and enriched by the use of **ICT tools** to make learning more interesting and interactive. The impact of these practices is visible in the fact that the students have scored top ranks at the University examinations.

Fostering research is one of the focal points of development in the post-accreditation period. The establishment of the **Central Research Facility** for interdisciplinary research through UGC and DST-FIST funding, the number of research papers and projects and the active participation of students in the Avishkar Research Convention stand testimony to the increased research activity in the College. The **R-Quest** scheme initiated by the College offers funding for minor research projects by students and teachers. Many teachers are recognised guides for postgraduate and doctoral research.

A fertile ground for research is provided by the well-equipped laboratories, computers with internet access and the library with its collection of over 1.25 lakh books along

with journals and e-resources. Some teachers provide consultancy services on a non-remunerative basis.

The unique feature of the College is the **huge, lush green campus** in the heart of the island city. Certain areas in the campus have been developed in an **eco-friendly** manner using recycled materials. The buildings, classrooms and laboratories are maintained and upgraded from time to time as per the needs of the students and the revised syllabi. The New Building is being effectively utilised to house the Library, the self-financing courses and the newly-developed well-equipped large multi-purpose hall.

The amphitheatre **Rupangan** and the activity area Saawli have been created to provide a **conducive learning ambience** for the students. IT infrastructure has been considerably enhanced and effectively deployed to facilitate administrative efficiency as well as to enhance teaching-learning.

The welfare of students has always been the prime concern of the College and every effort is made to provide a safe, healthy and conducive environment for them. In keeping with our motto **For the Spread of Light**, no student is denied admission on the basis of inability to pay fees; support is given to such students through student welfare schemes. The students' progress is constantly monitored and suitable measures are adopted to deal with the difficulties faced by them. The Counselling Centre – Suman, the Placement Cell and the Women's Development Cell play an active role in this regard. The College is sensitive to the needs of differently-abled students and creates a supportive atmosphere for them.

Apart from academics, the College enjoys a reputation for excellence in sports with a place in the top five sports ranking of the University of Mumbai every year. Our sportspersons can hone their skills in different sports and games using the sports facilities which have been enhanced and upgraded. Box nets for cricket, modernised air-rifle shooting range, basketball court are some of the important developments. Participation in the wide array of **extra-curricular and cultural activities** organised by various associations of the College has helped to identify and nurture talent in the fields of music, dance and theatre. The endeavours of the NCC and NSS units orient

the students towards **community service and national development**. Students are given the scope and guidance to discover and actualize their potential in the field of their interest.

The College is a **teacher-managed institution** and it functions on democratic principles. Structured and systematic processes that are periodically modified ensure the smooth functioning of the College. Decisions are taken after considering the feedback from stakeholders, including the eminent academicians and professionals who are members of the governing body of the College. Open communication channels, **participative decision-making** and cohesive relationship between the management and the teachers ensure a healthy and favourable working environment. All endeavours of the College are carried out in the **spirit of service** to the field of education.

The best practices of the College are promoting **learning beyond the syllabus** and nurturing the environment. Through various teaching-learning methods, students are encouraged to become aware of the latest trends in the subject apart from aiming at success in the examinations. With its commitment to **nurturing the environment**, the College has undertaken eco-friendly projects and has implemented practices aimed at environmental sustainability.

A combination of **traditional values** and contemporary teaching methods has rendered the College synonymous with excellence in higher education. The College has been and still remains the destination of choice for students aiming at quality education and multi-dimensional personality development.

PART A

Profile of the Affiliated College

1. Profile of the Affiliated College

1. Name and Address of the College:

Name : D.G. Ruparel College of Arts, Science and Commerce
Address : Senapati Bapat Marg, Mahim, Mumbai.
City : Pin : 400 016 State : Maharashtra
Website : www.ruparel.edu

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Tushar Desai	Office: 022-24213030 Res: 022-24309961	09820161415	022-24303042	principal@ruparel.edu tushardesai@vsnl.com
Vice Principal	Dr. Dilip Maske	Office: 022-24303733 (Extn – 224) Res: 022-24330773	09892760421	022-24303042	dilip.maske@ruparel.edu
Steering Committee Co-ordinator	Dr. Neeta Tatke	Office: 022-24303733 Res: 022-24221663	09833479939	022-24303042	neeta.tatke@ruparel.edu

3. Status of the Institution: Affiliated College

4. Type of Institution:

a. By Gender

i.	For Men	
ii.	For Women	
iii.	Co-education	√

b. By Shift

i.	Regular	√
ii.	Day	
iii.	Evening	

5. It is a recognized minority institution?

Yes

No √

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

N.A.

6. Sources of funding:

Government

Grant-in-aid √

Self-financing √

Any other

7. a. Date of establishment of the college: 15/06/1952

b. University to which the college is affiliated /or which governs the college (If it is a constituent college)

University of Mumbai

c. Details of UGC recognition:

Under Section	Date, Month and Year	Remarks(If any)
i. 2 (f)	08/01/1976	
ii. 12 (B)	The College was established before 17.06.1972, hence not applicable	

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Not Applicable

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes

√

No

If yes, has the College applied for availing the autonomous status?

Yes

No

√

9. Is the college recognized
- a. by UGC as a College with Potential for Excellence (CPE)?

☐ Yes ☐ No ✓

If yes, date of recognition:

- b. for its performance by any other governmental agency?

☐ Yes ☐ No ✓

If yes, Name of the agency and

Date of recognition:

10. Location of the campus and area in sq.mts:

Location *	Urban
Campus area in sq. mts.	40,217 sq.mts.
Built up area in sq. mts.	16,171 sq.mts.

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities: Yes

- Sports facilities

* Play ground : Yes

* Swimming pool : No

* Gymnasium : Yes

- Hostel

* Boys Hostel: Yes

i. Number of hostels: 01

ii. Number of inmates: 90

iii. Facilities (mention available facilities)

- Well furnished rooms with a bed, cupboard, study table and chair.
- One recreational room, with television
- One sports room which consist of indoor game like Table Tennis, Carrom etc.
- Well-equipped gymnasium
- Well-maintained sports ground

- First aid boxes and tie-up with Shushrusha Hospital for the medical emergencies
- Huge library and reading hall close to the hostel
- UGC resource center for Internet facility during College hours.
- Two water purifiers
- Solar panels for water heating.
- Separate 24-hour security for the hostel
- CCTV camera installed at the entrance of the hostel

* Girls Hostel: No

- Number of hostels
- Number of inmates
- Facilities (mention available facilities)

* Working women's hostel: No

- Number of inmates
- Facilities (mention available facilities)

• Residential facilities for teaching and non-teaching staff (give numbers available - cadre wise): Two rooms available in the Boys' Hostel as residential facility for the male staff, if required.

• Cafeteria: Yes

• Health centre: First aid, Doctor on call, tie-up with Shushrusha Hospital for the medical emergencies

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance.....

Health centre staff –

Qualified doctor Full time Part-time

Qualified Nurse Full time Part-time

- Facilities like banking: Bank of Maharashtra
- Transport facilities to cater to the needs of students and staff: No
- Animal house: No
- Biological waste disposal: Yes
- Generator or other facility for management/regulation of electricity and voltage: Not required as constant supply of electricity is available
- Solid waste management facility: Yes
- Waste water management: No
- Water harvesting: Yes

12. Details of programmes offered by the college (Academic Year 2015-16)

Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
Under-Graduate	1) BA 2) BSc 3) BCom 4) BSc (IT) 5) BMS 6) BSc (Comp Sc)	Three Years	HSC	English	1) 240 2) 360 3) 480 4) 120 5) 120 6) 48	200 343 411 105 115 41
Post-Graduate	1) MSc (Botany) 2) MSc (Chemistry) 3) MSc (Physics) 4) M.Sc. (Zoology) 5) MSc (Computer Science) 6) MSc (IT) 7) MCom	Two Years	Graduation in the respective subject	English	1) 10 2) 30 3) 12 4) 10 5) 20 6) 20 7) 60	09 30 12 09 06 18 60
Integrated Programmes PG/PhD/ M.Phil.	--	--	--	--	--	--
Ph.D.	1. Botany 2. Chemistry 3. Zoology		Master's in the respective subjects	English	1) 08 2) 12 3) 08	
Certificate Courses	--	--	--	--	--	--
UG Diploma	--	--	--	--	--	--

PG Diploma	--	--	--	--	--	--
Any Other (specify and provide details)	M.Sc. by Research in Chemistry		Graduation in the respective subject	English	--	--

13. Does the college offer self-financed Programmes?

Yes ☒ No ☐

If yes, how many?

07

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No	--	Number	01
-----	-------------------------------------	----	----	--------	----

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	Botany, Chemistry, Computer Science, Information Technology, Mathematics, Physics, Statistics, Zoology	All	Botany, Chemistry, Computer Science, Information Technology, Physics, Zoology	Botany, Chemistry, Zoology
Arts	Economics, English, History, Philosophy, Political Science, Psychology, Geography, Marathi	All	--	--
Commerce	Commerce, Management Studies	All	M.Com	--
Any Other (Specify)	--	--	--	--

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- a. annual system
- b. semester system
- c. trimester system

17. Number of Programmes with

- | | |
|--|----------------------------------|
| a. Choice Based Credit System | <input type="text" value="All"/> |
| b. Inter/Multidisciplinary Approach | <input type="text" value="--"/> |
| c. Any other (specify and provide details) | <input type="text" value="--"/> |

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes No ☒

If yes,

- a. Year of Introduction of the programme(s)..... (dd/mm/yyyy)
and number of batches that completed the programme

- b. NCTE recognition details (if applicable)

Notification

No.:

.....

Date:

..... (dd/mm/yyyy)

Validity:.....

- c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately? Yes No ☒

19. Does the college offer UG or PG programme in Physical Education?

Yes No ☒

If yes,

- a. Year of Introduction of the programme(s)..... (dd/mm/yyyy)
and number of batches that completed the programme

- b. NCTE recognition details (if applicable)

Notification

No.:

.....

Date:

..... (dd/mm/yyyy)

Validity:.....

- c. Is the institution opting for assessment and accreditation of Physical Education Programme separately? Yes No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-Teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government	72						116		NA	
Recruited	Nil		06	13	14	18+1 Part Time	91	17	NA	
Yet to recruit	20						08		NA	
Sanctioned by the Management/ society or other authorized bodies Recruited	21 IT and BMS 24 others						---		NA	
Yet to recruit	Nil						Nil		NA	

*M-Male *F-Female

21. Qualifications of the teaching staff: 2015-16

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<i>Permanent teachers</i>							
Ph.D.	--	--	04	05	03	10	22
M.Phil.	--	--	--	03	02	01	06
PG	--	--	02	04	09	07	22
<i>Temporary teachers</i>							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	04	17	21
<i>Part-time teachers</i>							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	01	01

22. Number of Visiting Faculty /Guest Faculty engaged with the College. 06

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year 1 2012-2013		Year 2 2013-2014		Year 3 2014-2015		Year 4 2015-2016	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	149	268	168	280	168	300	166	277
ST	16	14	24	19	21	18	21	23
OBC	205	333	225	363	218	425	234	432
General	614	1111	663	1163	666	1082	682	1039
Others	88	135	101	156	111	151	121	150

24. Details on students enrollment in the college during the current academic year:
2015-16 (FY students, at the entry point)

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	1185	143	-	06	1334
Students from other states of India	06	-	-	-	06
NRI students	Nil				
Foreign students	Nil				
Total	1191	143		06	1340

25. Dropout rate in UG and PG (average of the last two batches)

UG PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

(b) excluding the salary component

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes No

If yes,

- a) is it a registered centre for offering distance education programmes of another University:

Yes No

- b) Name of the University which has granted such registration.

- c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes ☐ No ☐

28. Provide Teacher-student ratio for each of the programme/course offered

Program	Student strength	Teachers	Ratio
BA	200	20	1:10
BSc	343	39	1:9
BCom	411	06	1:68
BSc (IT and CS)	146	11	1:13
BMS	115	10	1:12
MSc	52	15	1: 4
MSc (IT and CS)	24	04	1:6
MCom	60	07	1:9

29. Is the college applying for

Accreditation: Cycle 1 ☐ Cycle 2 ☐ Cycle 3 ☒ Cycle 4 ☐

Re-Assessment: ☐

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: 16.09.2003 Accreditation Outcome/Result A

Cycle 2: 04.09.2010 Accreditation Outcome/Result A CGPA 3.07

*** *Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.***

31. Number of working days during the last academic year.

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

180

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

01.09.2004

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

i.	AQAR	2010-11	May 2011
ii.	AQAR	2011-12	May 2012
iii.	AQAR	2012-13	01.06.2015
iv.	AQAR	2013-14	27.06.2015
v.	AQAR	2014-15	11.04.2016
vi.	AQAR	2015-16	01.07.2016

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

PART B

Criteria – wise Inputs



Criterion 1

Curricular Aspects

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision:

Quest for lifelong learning

Learners as the focus

Stimulation of active learning

Fostering research

Efficient governance

Collaboration with industry

Social responsibility

Mission:

In accordance with its motto *For the spread of light*, The Modern Education Society aims to create and disseminate an atmosphere of learning and research of high academic, professional, ethical and ecological standards in which learners can gain knowledge and skills encompassing a wide range of disciplines – humanities, physical, biological and social sciences, law, technology, management and commerce – which will result in multi-dimensional personality development of the learners and enable them to fulfil the needs of industry and the community at large.

The objectives of the College have been detailed in 6.1.1.

The Vision and Mission of the College are displayed on boards on walls in corridors, foyer area and faculty common room. They are communicated to the stakeholders through the College Prospectus and College website.

During meetings with teachers, non-teaching staff, students and parents, a special mention of objectives is made. All academic, co-curricular and administrative activities are carried out in accordance with the Vision, Mission and Objectives.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

- All the teachers prepare and submit a teaching plan in consultation with the Head of the Department at the beginning of each semester.
- Teachers submit individual time-table to the Head of the Department and the College office.
- Since the academic year 2014 – 2015, the teachers record the following details in the Teachers' Diary - lectures engaged, topics taught, conferences / seminars / workshops / meetings attended, examination duties performed and participation in various co-curricular activities. It also contains a declaration that the assigned syllabus was completed. The Teachers' Diaries are verified by the respective Heads of Departments and submitted to the Principal at the end of each semester.
- Regular meetings are held in the Departments to discuss the progress of teaching plans and to review the activities. A plan of action is prepared based on the previous years' feedback, opportunities and challenges.
- Feedback about performance of teachers is obtained every year from students.
- Since Open Door Policy is implemented in the college, students and parents can approach the concerned teacher / Head of the Department / Principal and convey the academic difficulties. Immediate steps are taken to resolve the same.
- Suggestion boxes have been installed in the college office, faculty common room and examination department, so that students and staff can convey their concerns. Teachers are also encouraged to give their suggestions in writing to the Principal in the self-appraisal form and the Teacher's Diary.
- Exposure to industry is facilitated through visits and workshops as per the course requirements.
- Science Departments plan their schedule of practical sessions and inform the students through the notice board in advance. Discussions on the experiments are held prior to the actual practical sessions. Additional practical sessions are held for students to clear their doubts and complete their minimum requirements.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

- The Boards of Studies in association with the College conduct workshops whenever the syllabi are revised. Teachers are deputed to attend these workshops and brief their departmental colleagues about the same.
- The College provides the infrastructure necessary to implement the curriculum by purchasing the required books, journals, and instruments for the revised syllabi.
- Computer, internet connection and printing facilities are provided in every department of the College, while some departments have been provided laptops. Some classrooms are equipped with overhead projectors and screens.
- ICT equipment such as digital visualizer, portable sound system is made available on demand. A *Smart Classroom* is available for conducting lectures, which consists of one Smart Board, Touch and Smart Panel, Digital Presenter, RF Response Cards with 100 cards and two Lectern Speakers.
- Teachers from the Department of Physics use simulations such as PhET, Wolfram, Mathematica and SIRM to teach scientific concepts.
- Teachers of the College who are Chairpersons / Members of Board of Studies and Syllabus Committees for different courses play a significant role in designing the syllabi.
- Copies of University circulars about the syllabi, question paper pattern and examination are regularly sent to the respective departments and to the Library.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The College uses the following methods to ensure effective curriculum delivery and transaction on the curriculum:

- Teachers effectively use lecture summaries, question banks, reference books, research articles, and articles in newspapers, films and documentaries, field visits, guest lectures and internet and social media to supplement the conventional chalk-and-board lecture method.

- Book bank facility as per University norms is made available for socially and economically backward students. To augment this scheme, the College has provided additional funding.
- Departmental library facility for the students is available for reference work and project preparation.
- Students are mentored by teachers in some departments to improve their grades and enhance their overall personality.
- Parents' meeting is conducted at the beginning of the year to create awareness regarding the pattern of the three-year degree course, the rules of discipline and facilities offered by the College.
- The teachers conduct subject-wise orientation sessions to inform students about the curriculum, books prescribed, examination pattern and other relevant details at the beginning of each semester.
- The College laboratories and Library infrastructure are regularly upgraded to meet the demands of the curriculum.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

- In order to help students understand the real life application of concepts, field visits and industrial visits are regularly organised. Through this, students also get insight into the functioning of various organisations.
- In addition to the departmental laboratories, the College has established the Central Research Facility for inter-disciplinary research in Chemistry, Physics and Life Sciences. This has encouraged faculty and students to take up research projects.
- Experts from the industry are invited to deliver talks under the aegis of various associations of the Departments.
- Programmes like *Learning Beyond the Syllabus* by various departments help the students to develop life skills.
- To increase awareness about banking and financial instruments, a Commerce laboratory has been introduced in the year 2014-2015.
- The College has a tie-up with Tata Institute of Fundamental Research (TIFR) wherein the faculty from TIFR visits the College to deliver lectures in the Department of Physics. The monthly programme *Chai and Why?* organised by TIFR is hosted in the College. This

programme is open to all and is aimed at popularisation of science and public outreach. It involves interactive sessions on a variety of topics like the science behind Diwali crackers, astrophysics and mathematics.

- The College has a tie-up with FOSSEE, IIT-Bombay (Free and Open Software in Education) and Spoken Tutorial to spread awareness about open-source software.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University (number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stake holder feedback provided, specific suggestions etc.)

Teachers contribute to the development of curricula for various courses as Chairpersons / Members of Board of Studies and Syllabus Committees. A list of the teachers who have worked in various committees is given below:

Department of Economics	
Dr. Prakash Salvi	Member, Board of Studies in Economics (2010-2015) Former Chairperson, Board of Studies in Economics (2005-2010) Convener and Member, Syllabus Committees for TYBA and MA Economics.
Ms. Varsha Utpat	Member, Syllabus Committee for Economics from 2010.
Department of Psychology	
Dr. Nandini Diwan	Member, Board of Studies in Psychology (2010-2015) Former Chairperson, Board of Studies in Psychology (2005-2010) Member, Faculty of Arts. Member, Faculty of Science Member, 32 (5)(a) committee of the University of Mumbai.
Dr. Neeta Tatke	Member, Ad-Hoc Board of Studies in Physical Education- SNDT Women's University. Contribution to syllabi development in Psychology at FY, SY and TYBA.
Ms. Ruta Patwardhan	Contribution to syllabi development in Psychology at SY and TYBA.
Department of Botany	
Dr. Mangala Heble (retd.)	Member, Syllabus Committee for TYBSc Botany.
Ms. Neha Sawant	Member, Syllabus Committee for SYBSc Botany.

Department of Chemistry	
Dr. Rajan Rele	Member, Syllabus Committees for SYBSc, TYBSc, MSc Chemistry (2010-2012).
Mr. Sanjay Mahimkar	Member, Syllabus Committee for MSc Chemistry (2011-2012). Member, Syllabus Committee for SYBSc- Physical and Analytical Chemistry (Paper I) (2015-2016)
Department of Mathematics	
Ms. Jayashree Mehta	Subject Expert, Board of Studies for the Department of Mathematics, St. Xavier's College, Mumbai (2010-2013)
Department of Physics	
Dr. Tushar Desai	Member, Academic Council, University of Mumbai (2010- 2015) Chairperson, Ad-hoc Board of Studies in Information Technology (2010-2015). Member, Faculty of Science Member, 32(5)(a) committee of the University of Mumbai. Member, Syllabus Committee for Information Technology (2010-2015). Member, Board of Studies in Applied Sciences, Amity University (2016 onwards) Convener, Board of Studies in Computer Education and Information Technology, Maharashtra State Board of Secondary and Higher Secondary Education (2006 – 2011).
Ms. Vidya Patil	Member, Syllabus Committees for FYBSc, SYBSc and TYBSc in Physics (2014-2017)
Department of Statistics	
Ms. Vasundhara Govilkar (retd.)	Member, Syllabus Committee for TYBSc (2010).
Ms. Vrinda Kanitkar	Member, Syllabus Committee for BSc, Statistics at SNDT University (2012-2013)
Department of Zoology	
Dr. Meenakshi Sundaesan	Member, Syllabus Committees for TYBSc and MSc Zoology (2012-2015) Member of Book Writers Committee, University of Mumbai Member, Organizing Committee for the workshop - Peer review of University books for FYBSc Zoology
Mr. Nitin Wasnik	Member – Special invitee for committee constituted for the revision of FYBSc Syllabus in Zoology (2014-2015)

Dr. Minakshi Gurav	Member – Special invitee for committee constituted for the revision of FYBSc Syllabus in Zoology (2014-2015)
Dr. Gayathri N.	Member – Special invitee for committee constituted for the revision of FYBSc Syllabus in Zoology (2014-2015)

The teachers take into account the current trends and the feedback from students and peers while suggesting changes in the curriculum.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

The College is affiliated to University of Mumbai and therefore has to follow and implement the syllabi prescribed by the University. In view of industry requirements, students require additional training in career-oriented programmes and soft skills development. Hence, as per the demand, the College conducts short-term certificate courses and other value-added programmes on various subjects. The list of the courses organised is given below:

Department of Botany:

- A certificate course titled *Fruit Bonanza* – 1st to 6th November 2012.
- A two – day certificate course in Horticulture entitled *Glory of Horticulture* – 2nd and 3rd February 2012.
- A certificate course in Horticulture entitled *Glory of Horticulture* - 7th to 15th January 2011.

Department of Chemistry:

- A ten day *Certificate Course in Food and Drug Analysis* – 1st to 13th April 2016.
- A ten day *Certificate Course in Food and Drug Analysis* – 31st March to 10th April 2014.
- A certificate course in *Industrial Analytical Chemistry* - 19th to 27th April 2010.

Department of Economics:

- An Introductory course in *Basic Econometrics*.

Department of English:

- A two-week Certificate Course titled *Proficiency Course in English* – November 2013.
- A two-week Certificate Course titled *Proficiency Course in English* – April 2014.

Department of Information Technology and Computer Science:

- “Advanced Computer Networks” for M.Sc. IT Sem-II workshop, conducted at D. G. Ruparel College, on 25th January 2014
- Bio-Python workshop- 6th January 2016
- Exp Eyes workshops:
 - 1st-Batch: 4th and 5th February 2016
 - 2nd Batch: 15th to 17th February 2016
- Windows Azure workshop- 13th February 2016
- Microsoft Training:
 - 1st Batch: 8th and 9th October 2015
 - 2nd Batch: 10th and 11th October 2015
- Python workshop - 19th June 2015
- J-Mol and G-Chem paint - 1st August 2015
- A certificate course on *Information Storage Management* for IT and Computer Science students - 1st to 30th September 2011.

Department of Management Studies:

- A ten-day lecture series on *Industry Trends and Development* - 16th to 29th April 2016
- A ten-day lecture series on *Industry Trends and Development* - 19th July to 20th September 2014.
- A two day certificate course on *Management Games- Team Building* - 25th – 26th February 2014.

Department of Marathi:

- Short term course in *Modi Script*, 15th January to 23rd February 2016
- Short term course in *Soft Skills and Radio Jockey* - December 2015
- Workshop on *Samwad Kaushalye* – 1st to 10th December 2015
- Seminar on *Critical Review of the Novel Rahichya Swapnacha Ulgada* - written by Bharat Sasne - 16th December 2016.
- One day orientation programme on *Self Employment* under People Education Programme of Khadi and Village Industries Commission (KVIC), Government of India on 7th February 2015.

Department of Mathematics:

- Training in LATEX for writing research papers and usage of software XMAXIMA for graphs of mathematical functions for students of TYBSc – 7th August to 7th September 2015.

Department of Physics:

- A two day certificate course on *Know your Household Electrical Appliances* - 6th and 7th April 2015.
- A two week bridge course for students of TYBSc (Physics) in *Theoretical and Experimental Physics* in 2013.
- A two week bridge course for students of TYBSc (Physics) in *Theoretical and Experimental Physics*- 13th to 24th March 2012.
- One week advanced course in *Astronomy and Astrophysics* - January 2012.
- Two week bridge course for students of TYBSc (Physics) in *Theoretical and Experimental Physics* - 13th to 27th April 2011.
- A short-term certificate course in *Perspectives of Basic Astronomy* - November 2010 to April 2011.

Department of Psychology:

- A five day course on *Basic Counselling Skills* from 2nd to 9th May 2016.

Department of Zoology:

- Bridge Course for students admitted to TYBSc Zoology, April 2015.
- Bridge Course for students admitted to TYBSc Zoology, April 2014.
- Two day certificate course in *Separation Techniques in Biological Systems* for SYBSc and TYBSc students, 11th and 12th July 2012.
- *Bioinformatics for Beginners* on 1st and 3rd February, 2014 for SYBSc and TYBSc students.

1.1.8 How does institution analyse / ensure that the stated objectives of curriculum are achieved in the course of implementation?

To ensure that the stated objectives of curriculum are achieved in the course of implementation:

- Students are evaluated through tests, assignments, seminars, classroom discussions and presentations to monitor their performance.
- Results are analysed every semester to track the academic progress of the students.
- Remedial coaching is offered to the weak students in some subjects.
- The College has instituted gold medals and endowment prizes for toppers in each subject to motivate the students.
- Each teacher maintains a Teacher's Diary, which is a record of the completed academic activities as per the schedule.

Consequently, the College results are consistently higher than the University results.

1.2 Academic Flexibility

1.2.1 Specify the goals and objectives, give details of the certificate/diploma/ skill development courses etc., offered by the institution.

The major focus of the certificate and other skill development courses is:

- To bridge the gap between the academic learning and industry demands.
- To inform the students about various available employment opportunities, career development courses and innovative skills.
- To develop confidence in speaking English and to improve basic vocabulary skills among students who come from vernacular medium.

Please refer to 1.1.7 for the detailed list of such courses.

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If 'yes', give details.

Since the College is affiliated to University of Mumbai, the College is not permitted to offer twinning/dual degree programmes.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- *Range of Core / Elective options offered by the University and those opted by the college*
- *Choice Based Credit System and range of subject options*
- *Courses offered in modular form*
- *Credit transfer and accumulation facility*
- *Lateral and vertical mobility within and across programmes and courses*
- *Enrichment courses*

The Choice Based Credit System was introduced by University of Mumbai in the academic year 2011-2012 and has been systematically implemented in the College since then.

The College is affiliated to the University of Mumbai and offers a variety of subject combinations for Arts, Science and Commerce faculties. There are 18 subject combinations in

Arts faculty at FYBA. This enables the students to select the courses that meet their interests and demands of their future career options. Apart from specialisation in Economics, English Literature, Marathi Literature, Philosophy and Psychology, double majors like History-Political Science, History–Marathi Literature, Philosophy-Psychology, Psychology-English Literature, Psychology-Marathi Literature are also available for interested students. Eight subject combinations are offered in Science faculty at FYBSc with specialisation in Botany, Chemistry, Mathematics, Physics, Statistics and Zoology. Postgraduate programmes in Science – Botany, Chemistry, Physics and Zoology are offered. The University recognised laboratories and Central Research Laboratory offer scope for scientific research. The College also runs seven self-financed programmes in Bachelor of Management Studies (BMS), Bachelor of Science (BSc) and Master of Science (MSc) in the subjects of Information Technology and Computer Science, MSc in Analytical Chemistry and MCom (Advanced Accountancy). Doctoral Programmes in three subjects Botany, Chemistry and Zoology are offered. This is in keeping with the current trends in the job market.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

The College offers the following self-financed programmes :

No.	Name of Self Financing Course	
1	Bachelor of Management Studies	BMS
2	Bachelor of Science (Information Technology)	BSc (IT)
3	Bachelor of Science (Computer Science)	BSc (CS)
4	Master of Science (Information Technology)	MSc (IT)
5	Master of Science (Computer Science)	MSc (CS)
6	Master of Commerce in Advanced Accountancy	MCom
7	Master of Science (Analytical Chemistry)	MSc

These courses are affiliated to the University of Mumbai. The syllabi, admission criteria, fee structure and qualification norms for teachers are as prescribed by the University. The Management decides the salary component of the teachers appointed on ad hoc basis. The College does not receive any salary grant from the Government for these courses.

1.2.5 Does the college provide additional skill-oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

Yes. Certificate courses and other value-added programmes are conducted by various departments. Students can learn topics of their interest beyond the prescribed syllabi. These courses are inter-disciplinary in nature and of practical importance for students. They help in generating interest for the subject and make students aware of career options. The list of the programmes conducted is given in 1.1.7.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

Talks, lecture series and other skill-development activities conducted by experts from various fields are organised for the students. This helps them in understanding the topics better, broadens their knowledge base and creates awareness of the additional dimensions of their subject area. Students and teachers participate in workshops, symposia, conferences organised in the relevant subjects. Film screening, field visits, educational tours, book reviews, presentations supplement the curriculum. Innovative activities such as mobile planetarium in the campus, science exhibitions, formal and informal discussions, participation in debates, quizzes, and skill-development programmes help the students to *Learn Beyond the Syllabus*.

Department-wise subject-related festivals are organised such as *Arthotsav* for Economics, *Carpe Diem* for English, *Dot Tech* for Information Technology and Computer Science, *Aarambh* for Management Studies, *VIBGYOR* for Physics, *Psynergy* for Psychology and the Science Association Exhibition. They help students to learn teamwork and event management skills.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

Within the framework of the curriculum specified by the University of Mumbai, the teachers make efforts to deliver the content using a variety of teaching methods to make the subject interesting. Apart from chalk-board method, PowerPoint presentations, simulations, and group

discussions are used. Activities are conducted to bridge the gap between the curriculum and the demands of the industry e.g. training sessions for computer hardware and software, certificate course on Proficiency in English. Students are encouraged to apply for summer research fellowships. Interactive sessions with professionals and scientists are regularly conducted. DLLE Unit volunteers are encouraged to take up Industry Orientation Projects (IOP). Career-related lectures are organised for students.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The Women's Development Cell and other departments organise programmes on gender sensitisation. Programmes related to climate change, environmental education, human rights, ICT are also regularly organised. In the last five years, several such programmes were conducted for the students and the staff. A detailed list of such programmes is given in 2.2.4. An environment-friendly approach is maintained on the college campus. The College has a botanical garden and the specimens required by the Department of Botany for the practicals are sourced from the campus itself.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students? Moral and ethical values, employable and life skills, better career options, community orientation.

Every attempt is made to sensitize the students to moral and ethical concerns through programmes related to gender, social equality and community service activities to mould the students into good citizens. As mentioned above various skill-development programmes are organised by the departments for holistic development of the students. The detailed lists of such programmes are given in 1.1.7 and 2.2.4.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Many Heads of the Departments and senior teachers are members of Board of Studies in their respective subjects at the University. Many teachers are members of the syllabi committees at the undergraduate and postgraduate levels.

These teachers discuss the subject-related issues, current trends in the industry and market with the students, parents and alumni. They also attempt to identify limitations of the existing syllabi and to suggest changes for restructuring the syllabi. Feedback, inputs and suggestions regarding the curriculum are informally given by the students, by alumni who are professionals, and by parents. This feedback is conveyed to the respective Boards of Studies by the teachers of the College who are Chairpersons / Members or participants in syllabus framing workshops.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The Head of the Department or the Course Coordinator takes feedback about the course from the participants. This feedback is discussed with the subject experts and the Principal and necessary modifications are made. The suggestions from the feedback are implemented during the future courses.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The curriculum is defined by the University of Mumbai. Many teachers of the College, in their capacity as chairpersons/ members of Board of Studies / syllabi committees make important contributions to the development of the relevant syllabi. The list of teachers involved in syllabi revision, professional and developmental programmes for teachers and students is given in 1.1.6 and 2.4.3. They also attend subject and skill-development workshops, refresher and orientation courses to enhance their knowledge and expertise to teach the curriculum.

Efforts are taken to enable *Learning Beyond the Syllabus*. Remedial sessions, mentoring, training in enhancing study skills make an attempt to reach out to students to improve their academic skills. Research is encouraged at both student and teacher level and a substantial increase in research activity is found. The details of research by teachers are given in 3.4.3 and annexure-3.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

The suggestions about curriculum given by teachers, students, alumni and other stakeholders are conveyed to the Board of Studies and syllabi development committees by teacher members.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

Keeping in view the large demand from the students and the availability of infrastructural facilities, MCom in Advanced Accountancy was introduced in the year 2013-2014. Within a period of two years, an additional division of MCom has been introduced. An additional division for BCom was also started. The Research Laboratory in Physics is in process of obtaining recognition for PhD in 2015-2016. Proposals for additional divisions for BSc and MSc (IT) have also been sent to the University.

Any other relevant information regarding curricular aspects which the college would like to include.

A shift to Credit Based Grading System from 2011-2012 resulted in a change in syllabi and examination pattern. Internal class tests, assignments were introduced. Keeping in mind the number of students who had to be assessed on continuous basis, the College extended full support to teachers to conduct and attend workshops on revised syllabi and to use a variety of innovative methods including ICT in teaching and evaluation. Through the introduction of Teachers' Diary, it was also ensured that teachers plan and implement the syllabi meticulously. *Training in Soft Skills* and *Learning Beyond the Syllabus* are major highlights in addition to the teaching of the curriculum.



Criterion 2

Teaching, Learning and Evaluation

CRITERION II: TEACHING – LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

The College is one of the premier educational institutions in Mumbai, well-known for its excellence in academic, extra-curricular and co-curricular activities. A large number of students seek admission to this College.

The Admission Committee of the College comprising the Principal, Vice-Principals, teachers and Office Registrar monitors the entire admission process.

The College prints and publishes a comprehensive prospectus every year, which gives information about the course options, combinations and newly-introduced programmes along with the eligibility criteria for admissions to various programmes.

After the Higher Secondary Certificate (HSC) examination results, the University of Mumbai notifies the schedule for admissions. This schedule and other information about the admission procedure are displayed on large flex boards and notice boards on the campus. The information is also put up on the College website: **www.ruparel.edu**.

An information leaflet which has details like dates and venues for submission of forms, fees and required documents is provided with every admission form. The cut-off marks as per merit lists in different faculties and for different categories of students of the previous academic year are also displayed to enable the applicants from other colleges to gauge their chances of admission. Prospective students can also gather additional information by visiting the College website or by consulting teachers who are always available and willing to give information and guidance to all who seek it.

As per the rules of the University, students have to upload their information including the HSC marks on the website of the University and submit the printout of the same to the College, for the admissions at the first year level. All admissions are granted on merit and in accordance with the guidelines of the Government and the University applicable at the time. The lists of students eligible for admission on the basis of merit are displayed on notice boards. The **Management quota is surrendered** to the Government / University and all the admissions are granted strictly according to merit.

As the demand is more than the number of seats available, the College does not advertise in either local or national newspapers. Being a prominent College in Mumbai, articles about the facilities

and the features of the College are published by the newspapers before and during the admission process.

The schedule prepared by the College for Second and Third Year of Degree Programme admissions is displayed on notice-boards at different locations on the campus. The information leaflet about admission to higher class is provided to the students along with the marksheets. Members of the Admission Committee and senior teachers are available to answer all the queries of the prospective students and their guardians regarding selection of courses.

For post-graduate programmes in Science and Commerce, seats are allotted by University of Mumbai. The College quota seats are filled by in-house students strictly on merit basis and remaining seats, if any, are available to outside students on the basis of merit. Eligible candidates for MSc by Research and PhD are admitted as per the procedure prescribed by the University of Mumbai.

The College ensures that the entire admission process is systematic and transparent and in accordance with the policies, rules and guidelines set by the University and the Government from time to time. All the policies of reservation, quotas applicable for differently-abled persons sports, cultural activities and other categories are strictly adhered to.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Process of admission and criteria adopted

Admissions for all programmes including self-financed programmes are given strictly on the basis of merit.

Students who select optional courses are counselled about which courses would suit their caliber and interest.

The College does not conduct any entrance test for any course. All the admissions to the first year level are given on the basis of the marks obtained in HSC. Admissions for the postgraduate programmes are given on the basis of marks obtained at the final year of the undergraduate programme.

Candidates who have passed the PhD Entrance Test (PET) conducted by the University are interviewed at the College for admission to the PhD programme.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

Course-wise cut-off percentages for admission at the entry level are given below:

2015 - 2016

Category		FYBA	FYBCom	FYBSc	FYBSc (Comp. Sc)	FYBSc (IT) Maths 100 marks	FYBMS Arts	FYBMS Com.	FYBMS Sc.
General	Max	97.07	91.69	97.84	94.46	100	88.00	90.46	93.38
	Min	93.53	79.23	49.23	70.92	69	53.53	82.30	67.07
OBC	Max	61.53	76.92	61.53	65.84	69	74.28	79.69	79.69
	Min	50.00	72.00	47.53	64.15	57	61.74	75.69	75.69
SC	Max	58.92	69.23	54.76	51.23	54	58.02	71.53	71.53
	Min	52.30	63.53	38.46	45.23	43	51.30	68.15	68.15
ST	Max	45.38	44.92	42.32	50.15	55	-	47.38	55.82
	Min	35.07	35.07	36.57	50.15	36	-	32.07	47.63
VJ (A)	Max	48.00	57.69	35.25	60.76	40	-	65.38	71.84
	Min	48.00	57.69	35.00	60.76	40	-	60.61	66.00
NT (B)	Max	62.00	62.61	60.00	63.23	62	-	74.46	67.07
	Min	55.38	60.00	44.30	56.76	50	-	73.23	53.69
NT (C)	Max	73.69	43.69	49.38	50.92	53	-	70.15	60.61
	Min	73.69	43.69	39.84	50.92	53	-	60.61	54.30
NT (D)	Max	68.76	41.38	53.53	53.69	64	-	77.69	67.07
	Min	68.76	41.38	48.30	51.38	48	-	69.84	48.92
SBC	Max	71.84	78.30	61.53	66.15	60	-	87.69	64.76
	Min	71.84	67.84	42.46	63.53	59	-	74.76	56.92
Special Category	Max	76.61	59.69	63.68	53.69	46	-	73.63	75.80
	Min	72.46	53.07	58.00	53.69	46	-	70.44	64.35

2014 - 2015

Category		FYBA	FYBCom	FYBSc	FYBSc (Comp. Sc)	FYBSc (IT) Maths 100 marks	FYBMS Arts	FYBMS Com.	FYBMS Sc.
General	Max	92.92	82.92	70.77	78.00	80.00	68.15	84.00	80.15
	Min	82.15	80.15	52.31	73.08	75.00	49.23	80.46	73.08
OBC	Max	65.23	81.53	69.23	70.92	70.00	54.61	77.53	64.00
	Min	48.76	76.76	44.92	65.23	65.00	54.61	73.53	61.53
SC	Max	65.23	77.07	61.84	60.00	56.00	47.38	74.69	56.61
	Min	44.15	64.61	44.61	49.85	53.00	47.38	68.61	56.61
ST	Max	53.23	45.53	43.32	47.84	41.00	-	46.15	45.53

	Min	53.23	45.53	36.87	47.84	41.00	-	46.15	-
VJ (A)	Max	50.00	55.84	38.25	57.84	41.00	-	57.69	-
	Min	50.00	43.85	35.00	57.84	41.00	-	57.69	-
NT (B)	Max	49.69	74.92	60.92	55.45	70.00	-	74.61	-
	Min	49.69	55.84	55.00	53.73	50.00	-	74.61	-
NT (C)	Max	53.07	68.61	49.69	52.00	58.00	-	51.84	-
	Min	45.23	46.30	40.63	50.38	48.00	-	51.84	-
NT (D)	Max	54.76	66.92	51.53	51.72	69.00	-	57.53	-
	Min	54.76	56.00	45.00	51.00	64.00	-	57.53	-
SBC	Max	63.84	76.30	66.92	67.10	70.00	-	72.30	-
	Min	63.84	76.30	44.92	62.76	70.00	-	72.30	-
Special Category	Max	48.15	57.53	58.63	53.84	-	-	69.23	-
	Min	48.15	57.53	-	-	-	-	69.23	-

2013 - 2014

Category		FYBA	FYBCom	FYBSc	FYBSc (Comp. Sc)	FYBSc (IT) Maths 100 marks	FYBMS Arts	FYBMS Com.	FYBMS Sc.
General	Max	81.33	83.33	93.00	79.16	84.00	64.33	80.00	71.00
	Min	74.16	77.55	41.66	71.66	70.00	45.00	76.66	65.83
OBC	Max	66.83	78.00	52.30	66.16	75.00	54.61	72.16	61.83
	Min	59.33	73.16	38.46	54.16	65.00	54.61	67.83	53.16
SC	Max	61.16	71.16	43.07	58.50	55.00	47.38	73.83	65.50
	Min	51.66	54.16	40.07	58.50	45.00	47.38	66.00	55.50
ST	Max	52.35	53.50	44.86	48.46	52.00	-	59.00	-
	Min	51.02	53.50	37.78	46.64	40.00	-	59.00	-
VJ (A)	Max	-	45.00	40.25	59.34	38.00	-	58.00	-
	Min	-	40.33	36.00	56.47	37.00	-	56.00	-
NT (B)	Max	68.33	74.66	61.23	57.33	58.00	-	70.33	62.33
	Min	68.33	66.00	54.78	54.49	56.00	-	49.33	62.33
NT (C)	Max	81.66	73.66	49.00	54.00	66.00	-	52.38	65.50
	Min	81.66	46.66	42.04	51.83	57.00	-	51.27	65.50
NT (D)	Max	55.59	74.33	52.36	52.67	59.00	-	59.00	-
	Min	53.52	62.33	46.68	51.35	53.00	-	57.62	-
SBC	Max	-	75.50	52.15	55.00	80.00	-	79.00	61.83
	Min	-	67.66	50.15	55.00	65.00	-	67.00	61.83
Special Category	Max	-	64.83	58.63	-	74.00	-	71.16	-
	Min	-	64.83	-	-	-	-	71.16	-

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

The entire admission schedule at first year level is decided by the University, including the dates for sale of forms, schedule for the display of each merit list and the payment of fees. The College appoints an Admission Committee and ensures that this process is strictly adhered to.

The students are offered guidance in choosing the courses by the senior teachers from all faculties. Any feedback given by the students, parents and stakeholders is considered for improving the admission process.

In order to review the student profile, data of admitted students is recorded in Vriddhi software. It has been observed that more than 60 percent of the students are women. Many of the students are from economically weaker section of the society. No eligible student is denied admission due to financial inability; financial support is provided wherever possible.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.

The College is sensitive to the socio-cultural, economic, and gender diversity of the student population, and every effort is made to respect the students' right to higher education and to develop themselves and the nation through higher education. The various quotas specified for the different groups through ordinances of the University are strictly adhered to. To ensure inclusion, students from different categories are admitted as described below:

- a. **SC/ST Students from disadvantaged community:** As per Government and University norms, the College admits students from disadvantaged communities like SC, ST, NT, VJ and DT. The College strictly follows the reservation policy specified by the Government. The College has a *Special Cell Advisory Committee*, which conducts an orientation programme, and helps the students from disadvantaged communities to fill the online form for the Government scholarship and freeship. For aided as well as self-financed programmes, these students are asked to pay a nominal amount of fees ₹ 450/-. Requirement of marks at entry level for the disadvantaged students is lower than that for the students of general category. All related ordinances of the University are strictly adhered to. For example the minimum eligibility criteria is 45% marks for General Category (in one attempt) at the respective examination and 40% marks for the

Reserved Category (in one attempt) for Bachelor of Management Studies and Information Technology.

- b. **OBC:** Requirement of marks at entry level for the OBC students is lower than that of the students of general category.
- c. **Women:** Since a large percentage of admitted students are women, all efforts are made to ensure a safe and conducive learning environment for them.
- d. **Differently-abled:** A quota of 3% is indicated for differently-abled students (physical/visual/hearing/learning impairment) for admission.
- e. **Economically weaker sections:** No deserving student is denied admission on grounds of inability to pay the fees. Students from economically weaker sections who require assistance are advised to approach the Principal. On verifying each case, the student is allowed to pay the fees on suitable installment basis. In case the student is unable to pay the fees, his/her fees are paid through the Students' Mutual Aid Fund or Students' Welfare Fund. To support the academic needs of such students, a special scheme is implemented through the College Book Bank and some departmental book banks, or the teachers give their own copies of text and reference books to them. The College Management has an empathetic and considerate attitude towards such students. The College has instituted various endowment scholarships for the benefit of needy and deserving students. These scholarships are awarded on the basis of the recommendations by the Departments and the Prize Distribution Committee.
- f. **Minority community:** As per the norms of the Government, there are scholarships for students from Minority Community. They are given admission on merit.
- g. **Any other:** Sportspersons (sports quota) and artists (cultural quota) are admitted as per the quota stipulated for them.

Each of the above categories is listed in the circulars regarding admission by the University. Norms notified by the University from time to time are strictly followed. Where specific norms of admission are not mentioned for a particular category, admissions are given strictly on merit basis.

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends i.e. reasons for increase/decrease and actions initiated for improvement.

<i>UG 2015-2016</i>				<i>2014-2015</i>		
<i>Programmes</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>
FYBSc	943	358	2.63	1034	327	3.16
FYBSc(IT)	671	107	6.27	838	99	8.46
FYBA	433	50	8.66	388	50	7.76
FYBCom	963	200	4.81	1115	200	5.575
FYBMS	709	116	6.11	810	120	6.75
TOTAL	3719	831	4.47	4185	796	5.25

<i>UG 2013-2014</i>				<i>2012-2013</i>		
<i>Programmes</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>
FYBSc	743	252	2.94	939	278	3.37
FYBSc(IT)	628	101	6.21	837	117	7.15
FYBA	261	70	3.72	260	197	1.31
FYBCom	735	200	3.67	692	311	2.22
FYBMS	537	120	4.47	665	113	5.88
TOTAL	2904	743	3.90	3393	1016	3.33

Overall a good response is seen for admission to all the programmes. This is a result of academic excellence along with co-curricular and extra-curricular activities. Availability of remedial coaching, consistent efforts by the teachers to reach out to students have resulted in increase in the number of students seeking admission to this College. The College makes sincere efforts to upgrade the laboratories, enhance the quality of education and to maintain conducive environment for the students. This trend is seen more prominently for the FYBSc because special efforts are made to generate interest in pure sciences. The College also has a Boys' Hostel and this is an additional asset, especially for outstation students to seek admission to this College.

<i>PG</i>		<i>2015-2016</i>		<i>2014-2015</i>		
<i>Programmes</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>
MSc-Chemistry	60	30	2:1	56	30	1.86:1
MSc-Botany	*	09	2:1*	*	10	2:1*
MSc-Physics	24	04	6:1	30	04	7.5:1
MSc-Zoology	*	09	2:1*	*	10	2:1*
MSc-Comp. Sc.	21	06	4:1	42	13	3:1
MSc -IT	61	18	3:1	122	20	6:1
MCom	86	60	1.5:1	75	57	1.5:1

<i>PG</i>		<i>2013-2014</i>		<i>2012-2013</i>		
<i>Programmes</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>	<i>Number of applications</i>	<i>No of students admitted</i>	<i>Demand Ratio</i>
MSc-Chemistry	50	30	2:1	54	28	2:1
MSc-Botany	*	08	2:1*	*	10	2:1*
MSc-Physics	26	04	6:1	32	04	8:1
MSc-Zoology	*	10	2:1*	*	10	2:1*
MSc-Comp. Sc.	56	12	5:1	31	20	
MSc -IT	116	19	6:1	61	17	
MCom	69	54	1.5:1	-	-	

* The College has 10 seats for each of the above mentioned courses, of which 7 students are admitted by the University of Mumbai. For the three College seats, on an average, the demand ratio is 2:1.

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The College is sensitive to the needs of differently-abled students and attempts to facilitate the learning process for them by offering various facilities. A quota of 3% has been allotted by the University for differently-abled students (physical/visual/hearing/learning impairment) for admission. Classrooms and examination halls for physically-challenged students are allocated on the ground floor to provide easy access. The College makes changes in the time-table and classroom allocation for the ease of access to physically challenged students on a case to case basis. Ramps have been constructed at all the entry points in all the buildings of the College.

During examinations, differently-abled candidates are given extra time as per the University rules.

JAWS software is available for visually challenged students in the UGC Resource Centre to enable them to read study material.

These students are encouraged to meet the College counsellor for addressing study-related and other difficulties. A separate meeting of these students and their parents is held at the beginning of the academic year to make them aware about the facilities.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes. Students' knowledge and skills are assessed before the commencement of programmes on the basis of marks scored by them in the (previous) examination, mainly for the third year students. Information is also obtained through personal interviews and interaction.

In-depth orientation is given by teachers to give information about the importance and scope of the subject, the prescribed syllabus, books for study and reference, examination pattern and evaluation process. All students are made aware of the syllabus, list of books and pattern of question paper by distributing copies of the same or through email, or putting them on the notice board. These copies are also kept in the College library as well as the respective departmental libraries.

Many departments conduct bridge courses, additional lectures by experts, and regular parents' meetings to help the students focus on their studies. Some departments also conduct sessions of the students with the College counsellor, mainly to help the students to improve their study skills.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

The following methods are used to bridge the knowledge gap of the enrolled students:

- Mentorship programme is conducted in some departments to give personal attention to every student. The teacher mentor assists the students for academic progress and provides personal help, if needed. All students of TYBSc Physics are assigned teacher mentors from the department to monitor the academic progress and personality development of the student.

The Department of Physics also organised counselling sessions on *Effective Study Habits* for the students of TYBSc.

- Departments of Physics and Chemistry conduct a Bridge Course for TYBSc in Theoretical and Experimental aspects to help students learn the fundamental concepts of the subject. Remedial sessions are also conducted for weak students.
- Department of Zoology conducts a Bridge Course for second year students who wish to major in Zoology at third year. It helps students in understanding the basic concepts in Zoology and also helps teachers in realising the students' level of understanding so that appropriate steps can be taken for effective teaching and learning.
- Department of Botany conducted Bridge Course for SYBSc students in 2015 – 2016. It helped the students in understanding basic concepts.
- Department of Management Studies conducts a Bridge Course in Accountancy for the FYBMS students, who take admission from Arts and Science Stream.
- Department of Psychology conducts meetings of the students who have taken admission to the second and third year classes and gives them detailed information about the books and the syllabi so as to encourage the students to read more about the subject. Other subject related e – books are also given to the students.
- Departments of English and Marathi conduct short courses to help the students improve their proficiency in languages.
- Department of Commerce conducts remedial coaching sessions for FY and SY Commerce students who fail in the examinations. They have introduced Commerce Laboratory, to help the students bridge the gap between the theory and practical aspects of the subject.
- Since 2013-2014, the Principal and Vice-Principals conduct meetings of students with low grades in the semester end examinations in order to guide and motivate the students. Students facing academic or personal problems are encouraged to meet the Counsellor.

2.2.4 How does the College sensitize its staff and students on issues such as gender, inclusion, environment etc.?

In keeping with the Mission and Vision statements of the College, the staff and students are sensitised towards gender, inclusion and environment in various ways.

Gender sensitisation programmes and activities:

The teachers and students are sensitised about gender issues through the different programmes organised in the College. Programmes including talks, symposia, training sessions, workshops, film screenings, street plays and participation in rallies are organised e.g. the renowned social worker Sindhutai Sapkal who works for orphaned children was invited by the Women's Development Cell to deliver a talk on *Striyanche Sabalikaran (Empowerment of Women)* on 10th February 2012. Also, social activists Dr. Ravindra and Dr. Smita Kolhe conducted an interactive session on *Aamache Sahajivan ani Samajsewa* on 28th November 2014.

Apart from the WDC, the departments and co-curricular associations are active in this regard. The teachers are invited as resource persons for gender-related talks and they also present research papers on gender issues.

The list of programmes on gender sensitization is given below:

- Reading of a story *Adam ani Eve* written by Ms. Rohini Kulkarni followed by a discussion, 5th January, 2011, Women's Development Cell and Marathi Vangmay Mandal.
- A talk on the *Domestic Violence Act* by Ms. Ujwala Kadrekar, 4th August 2010, Women's Development Cell.
- Participation by NSS volunteers in the *Sambhavana Rally* about *Preventing Female Foeticide* at Ravindra Natya Mandir, 21st August 2011.
- Screening of the film *Rita* followed by discussion with the director of the movie Ms. Renuka Shahane, 1st December 2011, Chitravedh.
- A talk on *Gender Sensitization* by Mr. Harish Sadani, President, MAVA (Men Against Violence and Abuse) followed by a workshop and exhibition, 8th December 2011, Women's Development Cell.
- Attendance by NSS volunteers at a seminar on *Stop Female Foeticide*, 2013, Yuvak Biradari.
- Screening of a Marathi film *Me Sindhutai Sapkal*, 3rd February 2012, Women's Development Cell.
- A talk on *Mental Health of Youth* by Dr. Kranti Kadam, 25th July 2012, Women's Development Cell.

- A talk on *Womanhood - Biological Changes and Challenges* by gynaecologist Dr. Ashwini Bhalerao Gandhi, 2nd August 2012, Department of Psychology.
- A seminar on *Gender Awareness* with an NGO MAVA (Men Against Violence and Abuse) 7th September 2012, NSS unit.
- Visit by the NSS volunteers to the exhibition on *Stop Violence against Women* at the University of Mumbai, 12th January 2013.
- A talk on *Women's poetry in Marathi during post-1990 era: Changing Perspectives* by the poet Neerajaa, 10th January 2013, Department of Marathi.
- A street play *Eve Teasing* performed by NSS Unit at Kasar Wadi, Dadar, 26th January 2013.
- Attendance by NSS volunteers at a three-day workshop on *Gender Sensitization* organised by Men Against Violence and Abuse, 9th - 11th August 2013.
- A five day workshop on the theme *Say No Accept No*, 9th-13th August 2013, NSS Unit and the NGO MAVA.
- A seminar on *Gender Sensitization* by Ms. Kavita Bhatia, 10th December 2013, NSS Unit.
- A talk by Dr. Kranti Jejurkar on *Violence faced by Women in India*, 14th August 2014, Womens's Development Cell.
- A screening of a short film *Keep Talking* followed by a talk and question-answer session by Mr. Harish Sadani, 29th November 2014, Department of Psychology.
- A photography competition *Psychlick* on the theme *Gender Bias*, 29th November 2014, Department of Psychology.
- Poster presentation on *Status of Woman in Indian Society* by students of the DLLE Unit at Udaan Festival held at Thakur College.
- Poster exhibition on *Survey of Women's Status, Career Project, Student Manager and ICT* by students of DLLE Unit, 19th January 2015.

Teachers as resource persons:

- A talk by Dr. Nandini Diwan on *Violence against Women* at the Silver Jubilee Conference of Marathi Manas-shastra Parishad on *Psychology of Violence*, University of Mumbai, on 22nd December 2010.
- Ms. Neeta Tatke as a resource person for a panel discussion on *Multitasking and Building of Potential*, organised by Sheth G. S. Medical College and K.E.M. Hospital, 8th March 2011 – International Women's Day.

- Review of a questionnaire on *Eve Teasing* prepared for a survey by MAVA, Dr. Nandini Diwan.
- Keynote address by Dr. Nandini Diwan on *Stress Management for Working Women*, at the Department of Atomic Energy, Government of India, 8th March, 2013.

Research papers presented:

- *The Changing Status of Women in a globalising city: A Case of Girangaon (Mumbai)* presented by Ms. Deepali Bhide at the 11th Asian Urbanization Conference organised by Osmania University, 10th - 13th December 2011.
- Presentation of a research paper titled *A house wife's right to the Personal Space* by Ms. Deepali Bhide at the UGC Sponsored Two Day National Conference on *Women's Quest for Equality in India- Promises, Problems and Prospects* at K. G. Joshi and N. G. Bedekar College, 9th - 10th January 2015. ISBN: 978-81-922741-4-0.
- *Mapping Marginalisation of women in Mumbai and its peri-urban areas* by Ms. Deepali Bhide at a National Conference on *Marginalisation and the Politics of Identity: Issues and Challenges*, 10th February 2015, Kirti M. Doongursee College.
- *Spirituality – The need of the hour* presented by Ms. Anupama Mujumdar at a conference titled *Women's Quest for Equality in India: Promises, Problems and Prospects* at K. G. Joshi College of Arts and N. G. Bedekar College of Commerce, 9th – 10th January 2015.

Activities to promote Inclusion:

The College makes active attempts to sensitise its students towards the needs of diverse groups, helps the students to overcome their challenges and to work towards skill development. e.g. A seminar on *Entrepreneurship* was organised in the College in collaboration with Khadi and Village Industries Commission from 5th to 7th February 2015 by the Departments of Marathi, Philosophy and Commerce. In 2016, another seminar on *Entrepreneurship* was conducted by the NSS Unit.

Umed- Aasha Jagnyachi – a talent showcase for senior citizens is organised every year by the NSS unit. It includes performances by senior citizens and physically and mentally challenged persons. The event has received an overwhelming response from the senior citizens in the neighbourhood of the College.

A seven day rural residential camp is organised every year by the NSS unit at Adivasi Madhyamik Vidyalaya, Bamnewadi, Shahapur, Asangaon. It includes gender sensitization free

health check-ups and clean up drives for the villagers and educational games for the tribal children.

Another village school which has benefitted from the one day camp conducted by the NSS unit is the Anand Toraskar School at Vangani, a tribal village near Mumbai, The volunteers conducted a dental check-up for the adivasi children on 25th August 2013. Education through games and cultural projects were undertaken.

Other programmes related to inclusion conducted in the College are listed below:

- A talk on *Overcoming Examination Phobia* by Savitri Bhadra, 22nd July 2010, Department of Economics.
- Screening of a documentary film *Prakashvaata*, 18th September 2010, Department of Geography.
- Science exhibition *Sci-Rup* which is conducted every year.
- Annual Physics fest – VIBGYOR organized by Department of Physics. It includes events like Mobile Planetarium, Fun and Learn Physics, Sun Spots Observation, Lecture Series, Screening of 3D Scientific Film. More than 1000 students from neighbouring schools have participated in this event.
- A talk on *Youth and Entrepreneurship* by Mr. Sajit Nair, 19th January 2011, Department of Management Studies
- Presentation of research studies on the theme of *Old Age and Related Issues* by students of Department of Psychology at a Research Convention, 3rd January 2011.
- Sale of flag stickers made by underprivileged students by NSS volunteers, 13th - 14th August 2012.
- A talk on *Samvaad-Kaushalya* by Mr. Pramod Pawar, 27th July 2012, Department of Marathi.
- Poster presentations by students of SYBA Psychology at the Inter Collegiate Research Convention Avishkar 2012-13 on *Social Conformity in College Students for College Related Activities as a Function of Being Alone or Having Support* and on *Self Esteem and Anxiety in Dyslexic and Non Dyslexic Students*.
- A talk on *Samruddha, Sundar Vyaktimattva* by Ms. Vidya Bal, 23rd November 2012, Department of Psychology and Women's Development Cell.
- Participation by NSS volunteers at the *Youth day* celebrations at the University of Mumbai, 12th January 2013.

- Sale by NSS volunteers of *Utana* made by the visually challenged students for the benefit of the National Federation Blind School, 31st October 2013.
- A two day camp on *Gender Sensitisation for Adolescents* organised by NSS unit at Adivasi Madhyamik Vidyalaya, Shahapur, on 25th-31st December 2013.
- Participation by NSS volunteers in the education project at the City of Los Angeles BMC School, 28th - 30th November 2013 and 2nd December 2013. Drawing and essay writing competitions were conducted for the students.
- Visit by students of TYBA Psychology to *Kamala Mehta Dadar School for the Blind*, 20th June 2014.
- Screening of the film *Ek Ruka Hua Faisala* followed by discussion, 12th July 2014, Department of Psychology.
- Field visit to Shanti Avedana Sadan, a hospice for terminally ill cancer patients, by students of TYBA, Psychology, 19th July 2014.
- Screening of a short film *Alppikatu 25* followed by a talk and question-answer session by the film-maker Ms. Inka Achte, 29th November 2014, Department of Psychology.
- Celebration of NSS Day by NSS volunteers at Kasarwadi, 24th September 2014. Stationery, old clothes were donated to the needy children. A street play by the volunteers was performed.
- Sale by NSS volunteers of envelopes made by differently abled people for the benefit of Avahan Palak Sangh, Dadar in 2014-2015.
- A talk on *Suicide Risk Assessment and Intervention Strategies* by Dr. Prachi Kene, 10th January 2015, Department of Psychology.
- A. D. Shroff Memorial Elocution Competition is organised every year by the Department of English in association with the Forum for Free Enterprise to build confidence and develop the public speaking skills of students.

Teachers as resource persons:

- Visually challenged students and foreign nationals trained in Mallakhamb by Ms. Neeta Tatke at Shree Samartha Vyayam Mandir since 2000.
- Ms. Neeta Tatke as a resource person for the programme *Suttichi Pathshala* on Zee Chovis Tass, 13th May 2010.
- Ms. Neeta Tatke as a resource person for *Developing Effective Study skills and Sports Skills*

at Deeplo Sports, 22nd August 2010.

- A workshop on *Effective Study Habits* at SPJIMR conducted by Dr. Nandini Diwan for teachers from BMC schools, 25th November 2010.
- Participation by Ms. Neeta Tatke in a talk on *High Functioning Children with Autism* by Dr. Chandan Vaidya at Sophia College, 20th December 2010.
- A workshop on *Effective Study Habits* at SPJIMR conducted by Dr. Nandini Diwan for teachers from BMC schools, 18th November 2011 and 27th March 2012.
- A workshop on *Emotional problems of teenagers* conducted by Dr. Nandini Diwan at the Pragati School for Hearing Impaired children, 1st February 2012.
- Dr. Nandini Diwan as resource person for a seminar on *Kautumbik vivadache Mulanvar Padsad* by Aadipath Foundation and Research Centre, 7th October 2012.
- A lecture on *Exploring Ideas of Physics Experiments through Simulation* for the BMC school children by Mr. Dilip Maske, 1st February 2013.
- SUMAN – Guidance and Counselling Centre: This centre has been set up to provide personal, academic and career counseling to students and staff members free of cost. The two visiting counsellors provide guidance and counselling about coping with personal, academic, family, and emotional problems, and information about courses and careers. The working hours of the Centre are between 11 a.m. and 3 p.m. two days a week.

Environment awareness and conservation initiatives:

The College has a large campus, where the following eco-friendly initiatives have been adopted:

- Rain-water harvesting - The College was the first in Mumbai to initiate the rain-water harvesting project in 2008. The capacity of the well is about 70,000 litres of water and it is used to maintain the huge 10 acre campus and also in the washrooms.
- Vermi-composting pit has been created for solid waste management.
- Solar panels have been installed in the Boys' Hostel since 2000. In 2014, solar panels have been installed and are used for power supply to experiments in Physics Laboratories.
- Solar-powered lights have been installed for lighting up the Notice Boards in the foyer of Science building and the washrooms in the Faculty Room.
- Solar-powered mobile phone chargers have been installed in the Faculty Room.
- Tubelights are being replaced by LED tubelights to reduce electricity consumption.
- Washrooms in the New Building are installed with sensors, so that lights and fans will be

switched off automatically when not required.

- The campus has 65 listed varieties of herbs and shrubs along with a separate Botanical/ Butterfly garden.
- Ten Nakshatra trees have been identified on the campus.
- Bird feeders and sparrow shelters have been installed.

Apart from field visits that are a requirement of the syllabi, students are taken for such visits as a part of *Learning Beyond the Syllabus*.

The Geography Association – GENESIS organised the following events:

- Visit to Indian Meteorological Department, Santacruz, Mumbai on 16th December 2010.
- Screening of a documentary film titled *From Antwerp to Ghana* discussing the issue of illegal transfer of E-Waste from the developed to developing countries in August 2011.
- Screening of a documentary film by the Centre for Science and Environment (CSE), Delhi titled *A Fate Worse than Floods* on 15th September 2011.
- Visit to Maharashtra Nature Park, Mahim on 12th January 2012.
- A talk on the topic *Antarctica on Bhoogol Din* by Dr. Ajay Dhar, Senior Scientist, Indian Institute of Geo-magnetism on 14th January 2012.
- Visit to Vasai fort on 18th August 2012.
- Participation in the *Model making competition* and presentation of a model on *Tsunami- how and why?* by students of SYBA Geography-Akshay Tarfe and Sayli Chavan at K. G. Joshi College of Arts and N. G. Bedekar College of Commerce in November 2012.
- Presentation of a research paper titled *Perspective of Society towards Religion* by students of SYBA Geography- Akshay Tarfe, Nisha Jacob and Vaidehi Bhujbal at the two-day international conference titled *Geography of Change: Contemporary Issues in Development, Environment and Society* at K. G. Joshi College of Arts and N. G. Bedekar College of Commerce on 11th and 12th January 2013.
- A visit to Indian Meteorological Department, Colaba, Mumbai on 5th February 2013.
- Nature trail to Sanjay Gandhi National Park, Borivali on 9th August 2013.
- Presentation on the topic *Waste Management* by Ms. Rashmi Joshi on 15th January 2014.

Department of Zoology organised the following activities:

- A four day excursion to Ganapatipule for students of SYBSc, TYBSc and MSc from 1st to 4th January 2011.
- A visit to Marine Biological Research Institute at Ratnagiri for students of SYBSc, TYBSc and MSc on 2nd January 2011.
- A project on *Mangrove Survey* which included Avian survey using line and Point transect method and Benthic Survey using Quadrant transect with Terracon Ecotech Pvt. Ltd. for Mira Bhayander Municipal Corporation by Akshay Nachane in November 2011.
- A project on *Water and sediment analysis (Hydrology) project* as a part of Environment Impact Assessment for Proposed Sewri-Nhava Seva Trans Harbour Sea link (MTHL) by Amit Patil, Akshay Nachane, Shashank More and Prachi Salunke under the guidance of Dr. Madhavi Indap, 11th December 2011- 11th January 2012.
- Visits to Suruchi beach and the rocky shore at Worli Fort for study and collection of marine specimens for students of TYBSc and MSc respectively.
- Visits to Shilonda at Sanjay Gandhi National Park to study biodiversity on 10th January 2011, 9th September 2012 and 30th August 2015.
- Visit to Sasoan Dock for studying marine fishes and collection of specimen on 21st January 2012.
- Visit to Government Hatchery at Goregaon by students of SYBSc and TYBSc to study Aquaculture practices.
- Visit to Dwarka, Okha, Khijadiya Bird Sanctuary (Jamnagar) from 3rd - 10th December 2011.
- Screening of documentaries on wildlife, animal behaviour pertaining to the syllabus of SY and TYBSc.
- Presentation of a paper on *Study of water quality and biological parameter of Sewri creek* by students of Zoology - Amit Patil, Akshay Nachane, Shashank More and Prachi Salunke at a National symposium on *Emerging trends in Life Science and Material Science* held at V.G. Vaze College in January 2012.
- Visit to Government Carp Breeding Centre at Goregaon, Mumbai by MSc II (Oceanography) students in October, 2012.
- Zoological Survey with Ecobasics as part of EIA at Trombay, Vashi, Nerul lake, Kharghar hills, Ghotake camp, Vashi, Gonkode lake, Koperkhairane, MIDC, Shilphata, Bhandup pumping station, CRODA chemicals and Sewri conducted by Mr. Ganpati Naik in October-November 2012.

- Work as nature educators and nature trail conductors by Mr. Akshay Nachane and Mr. Ganapati Naik (MSc I) at Nature Information Centre, Sanjay Gandhi National Park, Borivali.
- A seven day excursion to Sasan Gir National Park, Veraval and Khijadia Bird Sanctuary, Jamnagar from 7th to 14th January 2013.
- A one day excursion to Arnala fish landing and processing centre on 15th January 2013.
- A one day excursion to Suruchi beach for FYBSc students on 24th January 2013.
- Participation in *Mumbai Bird Race* on 27th January 2013 and *Dombivali bird race* on 20th January 2013 by Mr. Akshay Nachane, Ms. Sweta Agrawal and Mr. Sagar Gavas.
- A visit to Central Institute of Fisheries Education (CIFE), Versova by TYBSc students as a part of their curriculum for Applied Component-Marine Science on 17th August 2013.
- Excursion to Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli from 26th to 29th August 2013.
- An exhibition introducing the school students to various biological systems organised in collaboration with Science Association on 7th - 8th February 2014.
- Performance of a street play *Conservation of Environment* during College Annual day on 23rd December 2014 and at Parle Mahotsav on 26th December 2014 by TYBSc (Zoology) students.
- An excursion to Bhagwan Mahavir WLS, Goa from 28th January - 2nd February 2015.
- Visit to Virar for studying details of animal husbandry, vermiculture, piggery, poultry and nature trail on 23rd February 2015.
- Highest Point trail at Sanjay Gandhi National Park on 28th February 2016.
- Excursion to Amboli Ghat- Malvan from 11th to 17th January 2016. It included nature trail at Sawantvadi and Amboli, visit to rocky and sandy shore at Malvan, ornithology session at Dhamapur Bird Sanctuary and visit to Malvan sea shore for study of choncology and marine organisms.
- Visit to Ferry wharf (Bhaucha Dhakka) on 4th February 2016 to study various aspects of fisheries and types of fishes in marine life.
- Participation of students in the pre-conference workshop on 3rd July 2015 at Maharashtra Nature Park to spread awareness about wet-lands organised by M.D. College.

Department of Botany organised the following activities:

- One day excursion to BPT Gardens, Colaba, in January 2011.

- Excursion to Ootacamund, January 2011 for collection of various Bryophytes and Gymnosperm.
- Botanical excursions to Jijamata Udyan, Byculla, in July 2011, July 2012, July 2013 and July 2014.
- An excursion to Karnala Bird Sanctuary in October, 2011.
- A 14 day excursion to Dehradun, Mussorie, and Nainital in November 2011.
- One day excursion to BPT Gardens, Colaba, in January 2012.
- Excursion to Mahabaleshwar in January, 2012.
- Excursion to Kaas plateau in September 2012.
- One day excursion to Karnala Bird Sanctuary on 2nd October 2012.
- One day excursion to Bombay Port Trust (BPT) Gardens, Colaba, in January, 2013.
- Excursion to Mahabaleshwar in January 2013.
- One day excursion to Karnala Bird Sanctuary and Go Green Nursery, Karnala, on 11th August 2013.
- Excursion to Ranthambore, Bharatpur and Agra from 17th - 23rd November 2013.
- Excursion to Bombay Port Trust (BPT) Garden, Colaba, in the month of January, 2014.
- Excursion to Neral and Matheran, on 5th February 2014.
- Excursion to Yeoor Hills, in the month of August 2014.
- Screening of a short documentary about the *Gujarat Excursion* in January 2015
- Excursion to Bombay Port Trust (BPT) Gardens, Colaba, in January 2015.
- A six day excursion to Jamnagar, Gujarat, from 15th - 20th January 2015.
- Demonstration of Fruit and Vegetable Carving, Japanese flower arrangements, free-style flower arrangements.
- Labelling of the wide variety of plants available in the department by students and teachers.
- Excursion to Jamnagar, Dwarka and Gir Forest, Gujarat from 15th-20th January 2015.

NSS Unit organised the following activities:

- A Pulse Polio drive on 20th November 2011.
- Aiding Mumbai police for crowd management at Shivaji Park and Dadar Chowpatty during Ganesh immersion. The volunteers also made the people aware about the proper disposal of flowers and other pooja materials. This activity is carried out every year.

- *Beach Clean-up project* at the Dadar Chowpatty after the Ganesh immersion on 19th September 2013.
- A seminar on *Save Earth* for NSS Yuvak Biradari conducted by Vasundhara Bachav volunteers in August 2013
- Seminar on *Water harvesting* by Mr. Amit Jathar.
- *Tree Plantation* is carried out in the College campus on Independence Day and Republic Day every year.
- *Campus clean-up drive* and levelling of area marked for Open Air Canteen, January 2013.
- *Tree Plantation* at Karav, Vangani on occasion of Independence Day Celebration on 15th August 2013.
- Participation in *Hiroshima and Nagasaki Peace Rally* organised by the University of Mumbai on 6th August every year.
- College clean-up drive to clean the College campus and spread the awareness of Swatcha Bharat Abhiyan on 8th, 9th and 15th November 2014.
- *Paper Bag Project* aimed at reducing the use of plastic bags and using eco-friendly paper bags.

Department of Management Studies

- An exhibition on Vermiculture, extinction of animal species, electronic waste from 15th to 19th January 2014.
- Celebration of *Environment Day* with presentation of models by FYBMS students on environmental issues, 20th February 2016.
- A visit to Saguna Baug - a farm with agro forestry, dairy, fishing and aquaculture, agro tourism, horticulture, traditional and non-traditional farming, on 27th January 2016.

Health awareness programmes and initiatives:

Since more than fifty percent of students in the College are women, the College addresses health related issues of the students and the staff regularly. The College also makes efforts to spread health awareness outside the College. The following programmes related to health were organised:

- A visit to Haematological Laboratory at KEM Hospital for students of MSc II (Physiology) on 8th and 9th December 2010.

- A talk on *Stress management in metropolitan life* by Dr. Nandini Diwan at the National Rajbhasha Sammelan, Central Bank of India on 1st October 2011.
- Visit to pathology laboratory at Bombay Hospital by students of MSc II (Physiology) in January 2012.
- A talk on *Drugs from the sea - Have we realised the potential?* by Dr. Madhavi Indap at the National Symposium on Emerging Trends in Life and Material Sciences: Mission Mankind at V.G. Vaze College on 25th January 2012.
- A talk on *Healthy Heart and Happy Life* by Dr. Shekhar Ambardekar on 28th July 2012, Department of Psychology.
- A talk on *Womanhood - Biological Changes and Challenges* by gynaecologist Dr. Ashwini Bhalerao Gandhi on 2nd August 2012, Department of Psychology.
- A medical health check-up camp and education camp for the school students at Vangani on 25th August 2012 organised by the NSS Unit.
- Participation in the *Pulse Polio Project* in the Dadar region by NSS volunteers from 4th to 8th November 2012.
- Celebration of *World AIDS Day* by NSS Unit, 1st December 2012. A street play on AIDS was also performed. A huge red ribbon formation was made by the volunteers.
- A talk on *Neurocognitive Assessment* by Dr. Surabhi Patwardhan on 19th December, 2012, Department of Psychology.
- A seminar on *Sexual Orientation* by Ms. Kavita Bhatia on 29th January 2013, NSS Unit.
- A programme on *Anaemia Awareness* by Dr. Rekha Bhatkhande and Dr. Monica Goel on 9th July 2013, Women's Development Cell.
- A lecture on *Anaemia Awareness* by doctors from Shushrusha Hospital, 23rd July 2013, Department of Management Studies.
- Participation of 30 NSS volunteers in the *Dengue-Malaria Prevention* awareness drive along with the G North ward BMC officials from 25th to 31st October 2013.
- Volunteer work by NSS Unit during the free diabetes check-up booths set up by the BMC in the G-North ward on *World Diabetes Day* on 13th November 2013.
- A one day visit to Advanced Centre for Treatment, Research and Education in Cancer (ACTREC) by TYBSc Zoology students on 6th December, 2012 and 28th November 2013.
- *Malaria Awareness Project* by NSS Unit in collaboration with BMC office of G North ward from 25th to 31st October 2013 and 12th December 2014.

- A *Blood Donation Camp* is organised every year by NSS unit in association with St George Hospital.
- *Go Mad* seminar on coping with stress by the NSS Unit in collaboration with Art of on 14th December 2013.
- Nine group guidance sessions on *Nutrition and Fitness* by Ms. Sharmila Phansikar on 10th, 12th, 16th and 17th December 2013, Suman.
- Participation by the NSS unit in the *Pulse Polio Project* of the BMC on 24th November 2013 and 16th to 27th November 2014.
- A talk on *Breast Cancer and Cervical Cancer* by Dr. Shalaka Veling on 23rd January 2014, Women's Development Cell.
- Visit to the pathology, biochemistry and microbiology laboratories at Hinduja hospital by MSc Part II Animal Physiology on 11th February 2015.
- Health check up camps for the teaching and non teaching staff organised by the Staff Academy of the College:
 - Dental check-up – 15th March 2014
 - Bone density check-up - 22nd December 2014
 - Eye check-up – 3rd December 2015
- A talk on *Healthy Mouth – A Gateway To Healthy Body* by Dr. Shailendra Pathak on 15th March 2014, Staff Academy.
- A talk on *Diet and Exercise* for students by Ms. Sharmila Phansikar on 20th June 2014, IQAC.
- Seminar on *Antidrug* by NSS Unit along with Anti-narcotics Cell of Mumbai Police, Worli on 30th June 2014.
- A talk on *Yoga and Stress Management* by an expert from Ambika Yog Kutir on 19th July 2014, CASSO.
- A talk on *Euthanasia- an Indian Perspective* by Dr. Namita Nimbalkar on 30th July 2014, Tattvadarshan.
- A seminar on *Organ Donation* by NSS unit in collaboration with the Lions Club on 10th September 2014.
- Participation by the NSS Unit in *Vyasanmukti Rally* organised by the University of Mumbai on 1st October 2014.
- A talk on *Positive Thinking* by Dr. Shubha Thatte on 11th February 2015, Tattvadarshan.

- A talk by Dr. Rajen Daftary on *Ill effects of Self Medication*, 7th February 2015, Bioluminescence.
- A lecture titled *Win with Wellness* by Dr. Nihar Mehta, Cardiologist, 16th July 2015, Bioluminescence.

Thus, the activities and initiatives of the College reflect the concerns and create awareness about issues such as gender, inclusion, environment and health.

2.2.5 How does the institution identify and respond to special educational/learning needs of Advanced learners?

Students' education and learning needs are identified by their grades obtained in examinations and also through their classroom performance. The examination department gives the details of the results to all the departments and the results are analysed to identify the advanced students. The bright and hard-working students are given the opportunity to undertake small research projects and the Departments allow them to use the laboratory resources free of cost, to conduct their work. These students are assigned additional reading and reference material. Under the 60:40 pattern of CBSGS, they were encouraged to select challenging topics for the project/assignment work. Advanced learners are encouraged to participate in seminars and conferences and present their work. Such students are deputed for intercollegiate competitions like quiz and presentations.

These students are motivated to enroll for various co-curricular activities and attend special lectures, career guidance and personality development programmes arranged by various associations/forums in the College and other institutions. Departments also invite experts in various fields to interact with students. All these activities help in addressing the needs of advanced learners.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of dropout (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

After the introduction of Credit Based Semester Grading System, Parents' meetings for the first year classes of all the faculties are organised every year at the beginning of the term. The Principal interacts with the parents to inform them about the continuous evaluation process. For

the last two years, students who have failed in examinations were addressed on the day of their results as to how to cope with failure and increasing demands of the studies.

The information about the academic performance is collected from the result sheet of previous examinations and tests. Mostly the students at the risk of drop-out are poor academic performers. The concerned teacher member pays special attention to such students. Most departments conduct regular parents' meetings to inform them about the performance of the students. Some departments have mentorship programme. The College has a counselling centre – Suman, which provides academic and personal counselling free of cost for the students. Effective study skills sessions are regularly conducted through the counselling centre. If the student is found to have family or personal problems, they are advised to visit the counselling centre. For students who do not submit assignments on time or are very irregular, a meeting is held with the parents. Separate meetings of challenged students with their parents are arranged to understand the difficulties faced by them. The counsellor speaks to these groups, guiding them about the methods that can be adopted to enhance their academic performance. As a result of these efforts, the College has a negligible drop out rate.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blueprint, etc.)

Keeping in the mind the quest for academic excellence, every detail of the teaching-learning and evaluation schedule is planned and organised through the following practices –

Academic Calendar

As per the notification from University of Mumbai, the dates for the first and second semesters of the academic year as well as for summer and winter breaks are communicated to students, staff and other stakeholders through notice boards and the College website. An academic calendar, which is a comprehensive plan of all the academic, co-curricular and extra-curricular activities, is prepared prior to the commencement of the academic year.

With reference to the requisite number of teaching days for lectures, practical sessions and tutorials, the academic calendar is planned. The internal and theory examination dates, assignment/project submission dates, dates of additional examinations are displayed on the notice boards well in advance. The academic calendar takes into consideration the calendar for co-

curricular and extra-curricular activities, cultural programmes, sports competitions declared by the University. Annual Days, festivals organised by various departments, and other events are also planned. The College administration coordinates with the Students' Council / Committee while planning the co-curricular, extra-curricular and cultural activities which are scheduled in such a way that the academic time-table is implemented efficiently.

Teaching plan

The Head of each Department distributes the courses / units / topics of the syllabus among the teachers of the department considering their fields of specialization and interest. The time-table is framed and communicated to the teachers. Every teacher prepares the semester-wise monthly teaching plan at the beginning of the semester and submits it to the Head of the Department. The teaching plan takes into account the number of teaching days available in the term and division of syllabus of each subject into topics, sub-topics and units. It is implemented by the teacher, monitored periodically by the Head of the Department and verified by the Principal at the end of the term / semester. From 2014-2015 onwards, teachers have been given Teacher's Diary to note their daily teaching record as well as other academic activities.

For each class of science faculty, there is a teacher-in-charge for practicals who plans the practical sessions, communicates it to the students through departmental notice board and ensures its meticulous implementation.

For subjects which have projects / seminars as a part of the prescribed curriculum, the concerned teacher-in-charge delivers an orientation lecture about the project work / seminar topic, guidelines for the methodology to be followed, books and other sources of reference materials. The schedule for project report submission/seminar presentation and scheme of its evaluation is also communicated to the students through class room announcements and notice board. A special meeting is held for all those students who appear for additional examination to clarify the doubts regarding syllabi, examination procedure and other relevant information.

Evaluation

As per the guidelines given by the University, the College has formed an Examination Committee which prepares the schedule of examination, declaration of results and all related processes. Since 2011-2012, Credit Based Semester Grading System is being followed in which internal and theory assessment examinations are conducted each semester. Additional examinations are held for the students who could not appear for the regular examinations on valid grounds, as per the

discretion of Examination Committee. The students are *Allowed To Keep Terms (ATKT)* as per the guidelines of University of Mumbai.

The sanctity and confidentiality of examinations is maintained in every aspect. The course teachers set question papers in multiple sets for every examination and the question papers are selected randomly. The question paper setter also submits a solution key for each question paper they have set, which ensures transparency and unbiased evaluation.

The strong-room of the Examination Department is well equipped and is kept under CCTV surveillance. The Centralised Assessment Programme and moderation of answerbooks helps in unbiased evaluation of the students. Deadlines are set for the Centralised Assessment Programme to ensure that the assessment is completed well in time. The Unfair Means Inquiry Committee formed as per the guidelines of the University holds a meeting after every semester examination. All the students who have used unfair means during the examination attend the same with their parents. The entire procedure is as per the norms of the University. The students appearing in front of Unfair Means Committee are suggested to approach the College counsellor for study related difficulties.

The results are processed strictly as per the norms of University of Mumbai. Results are declared within 45 days after conduct of the examinations and are made available to the teachers for analysis and necessary action.

The College maintains transparency in evaluation of the students by offering the facilities of revaluation and photocopy of the answersheets to the students on application.

For the Third Year classes, preliminary examinations are conducted at department level. Apart from these, teachers in most departments conduct class tests, set home assignments and provide question banks and small projects to students for their continuous learning and evaluation.

For post-graduate programmes, internal evaluation is based on tests, seminars and projects as per the syllabus.

2.3.2 How does IQAC contribute to improve the teaching-learning process?

Every academic year, the IQAC interacts with all departments of the College to plan their yearly activities and monitors its implementation periodically. Strength, Weakness, Opportunities and Challenges (SWOC) analysis conducted for the all departments aids in analysing and improving teaching learning. IQAC organises workshops and seminars for enhancing the quality of teaching-learning and administration. Training sessions on use of MOODLE Learning

Management System and OMR were conducted for teachers.

The student feedback about the teachers is implemented through the Feedback Committee. This feedback is collected using the OMR sheets and RF Response Cards, analysed and then communicated to the teachers on one to one basis by the Principal. For last two years, feedback about the functioning of the Principal has also been collected from the teaching and non-teaching staff.

Students and teachers are encouraged to take up research projects. The Avishkar Committee promotes research by guiding the students and teachers to present projects at the Avishkar Research Convention at the University and State levels. The IQAC also makes recommendations regarding upgradation of teaching-learning resources.

2.3.3 How is learning made more student-centric? Give details on the support Structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Learners as the focus, quest for lifelong learning, fostering research, and multi-dimensional personality development of learners are the core values which are enshrined in the Vision and Mission Statements of the College. Every effort is taken to ensure that students receive quality education that ensures *Learning Beyond the Syllabus*. The teachers are aware of the diversity in the aptitudes, intelligence, learning styles, and interests of the students and so, do not believe in the ‘One size fits all’ or ‘One method suits all’ approach. The teachers act as facilitators and mentors, recognising the individuality of the student, stimulating their curiosity, encouraging independent inquiry and providing enriching opportunities for study.

- Conventional lecture method is made more interesting and interactive by the introduction of various tools and the use of ICT techniques. Lectures are not limited to classrooms but are made more appealing by utilizing the facilities on campus such as Seminar Room, *Rupangan*, *Saawli* and the lawn. Teachers adopt innovative teaching-learning techniques according to the suitability / requirement of the subject being taught.
- Teachers use posters, diagrams, graphs, charts, maps, 3-D models, preserved and live specimens in addition to the chalk-talk method as required by the programme. Interactive methods such as presentations, seminars, model-making, mock-interviews, debates, word games, quizzes, worksheets, case studies, discussions of topics in the syllabus and newspaper clippings related to it, reviews of books, role plays, skits and screening of films and

documentaries followed by an expert comments and / or group discussion are used to enhance the learning experience.

- The Department of Marathi invites writers and poets, especially of those books which are part of the syllabi and leading thinkers. Departments of Psychology and Geography also screen films based on their subjects. Department of Management Studies use model making and role plays for teaching Business Environment.
- Talks, seminars, workshops are organised. The students are encouraged to participate in similar programmes organised by other Colleges / Institutions. The notice boards regularly display subject-related information, programmes conducted by the College and other organizations. Guidance is provided to the students who participate in various inter-collegiate competitions.
- The Departments of Botany, Chemistry, Physics, Zoology and Psychology have departmental libraries to give students immediate access to the prescribed and reference books.
- The students are given information about reference lists, new books, e-books regularly. Use of e-books, e-journals and web-based referencing is encouraged.
- Field visits, long and short excursions as well as visits to industries and research institutes are organised by the departments to supplement classroom learning. This promotes awareness about the use of various technologies, the work systems and the demands of skill development. The students are introduced to the significance, applications and recent advancements of the concepts taught in the classroom. This bridges the gap between industry and academia.
- Students are encouraged to engage in small research projects either individually or as a team in the field of their interest under the aegis of Avishkar Research Convention. This helps the students to get acquainted with current trends in the subject. They get an opportunity to interact with their peers and with eminent personalities in the respective fields.
- The College library, enriched and updated with recent books and research journals, enables the students to explore the dimensions of their subject. The spacious reading hall facility with good ventilation and adequate light provides excellent ambience to the students for self study.
- The College and the co-curricular associations organise various activities for the students to orient them towards the various aspects of the subject. The students are encouraged to organise such events which boosts their confidence and inculcates the spirit of teamwork. Many departments conduct departmental festivals like *Arhotsav* for Economics, *Carpe Diem* for

English Literature and *Dot Tech* for IT and CS. The students thereby groom their leadership qualities and event management skills.

- The counselling centre *Suman* conducts group guidance sessions for students on how to enhance their study skills.
- Some departments have a mentorship scheme by which they guide and resolve students' difficulties and monitor their progress.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the Students to transform them into life-long learners and innovators?

The College strongly believes that, for developing a progressive society with skilled human resources, innovative approaches to promote lifelong learning, critical thinking and scientific temper are indispensable. This aim is persistently kept in mind while planning and implementing teaching-learning methodology. Apart from the activities mentioned earlier, the following steps are undertaken by the College to transform the students into life-long learners and innovators:

- The Science Association of the College has been working for the popularisation of science among students and the community. The annual Physics festival *VIBGYOR* includes a range of activities like mobile planetarium, exhibition of experiments in Physics, lecture series, 3D film screening which are open to the students of nearby schools.
- The monthly programme *Chai and Why* conducted in the College premises in association with TIFR allows students and local citizens to interact with eminent scientists and learn about different scientific concepts.
- Seminars were organised in association with the Khadi and Village Industries Commission to orient students towards entrepreneurship and self-employment. Students of the DLLE Unit conducted an entrepreneurship project in which they prepared and sold candles and decorative earthen lamps. The students of Management Studies run a business for a month, in which they have to make, package and sell a product.
- The College magazine *Imprints* provides a platform to the students and teachers to exhibit their creativity. The students contribute their writings and also form part of the editorial team.
- Group discussions and debates organised in the classroom by the subject teachers as well as lectures by experts organised by the departments and the various associations nurture critical thinking and collaborative learning.

- Students are encouraged to contribute to the departmental notice boards with interesting articles/ newspaper clippings/ anecdotes which ignite creativity and scientific temper in their minds.
- Students are motivated to undertake small research initiatives beyond their curriculum so as to nurture their scientific aptitude and social responsibility.
- Some departments conduct short-term certificate courses, bridge courses and remedial coaching to satisfy the curiosity of the learners.
- Students are encouraged to make working models, posters and participate in collegiate / inter-collegiate exhibitions.
- The programmes, departmental festivals, Annual Day and other functions are organised by the students under the guidance of the teachers. This helps the students to develop soft skills, leadership qualities and time management skills.
- The students' participation in NCC, NSS units and DLLE projects sensitises them towards social issues and helps them to develop their personality.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning-resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

The College has effectively implemented the use of ICT in teaching-learning and library. All departments are provided with computers with internet connectivity to enable teachers to use ICT to complement their lectures. Powerpoint presentations, animations, documentaries and short films are regularly utilised by the teachers for effective teaching. Students have access to the UGC Resource Center in the College for reference work and research. The Library of the College is creating a digital repository of textbooks, reference books, and research journals, open education resources in the form of notes, question paper, question banks and so on. INFLIBNET is accessible to the teachers and researchers for reference work. Social media platforms like Yahoo Groups, Whatsapp are adopted by some departments for quick communication between the teachers and students. A repository of lectures on specific topics is being created in the ICT laboratory (Room no. 402).

Under NME – ICT programme, College has procured 10 lines of internet with speed of 512 kbps

of each for which MTNL had provided DSL-AMP with fibre optic connectivity. A smart classroom equipped with smart board has been set up. An e-room for content development has been established under DST-FIST grant.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshopsetc.)?

In addition to the traditional methods for gaining/ imparting knowledge, the College urges its students and faculty to utilise modern and advanced techniques for honing their skills towards blended learning. Different strategies followed by the College include:

- Organisation of and participation in International and National seminars/ workshops/ conferences.
- Inspiring the teachers and students to participate and present their research work in international and national seminars/ workshops/ conferences.
- Enabling teachers to participate in Faculty Development Programmes organised by the Academic Staff College of the University.
- Inviting eminent personalities from academia and industry to deliver talks in the areas of their expertise.
- Organising visits to Industries / Research Institutions / National Parks.
- Excursions and Field visits.
- Organising short-term courses for the students.
- Subscription to research journals / periodicals / magazines by the library.
- Access to INFLIBNET
- Computer facility with internet accessibility and printer is available in each Department. WiFi is provided in certain areas of the campus.
- Participation of students in collegiate and intercollegiate events.
- Participation of students in small research projects

2.3.7 Detail (process and the number of students\benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling / mentoring / academic advise) provided to students?

Having strong faith in the holistic progress of students, the College advocates several practices to groom them as ethical and responsible citizens. The wide range of activities adopted by the

College ensures that the students develop leadership skills and awareness of social responsibilities, in addition to their academics.

The counselling centre *Suman* set up in the College offers professional guidance by practising psychologists to the students. The counselor visits the centre twice a week. Students can avail of individual personal counselling sessions as well as group counselling.

The number of students benefitted through individual sessions since 2010 is as follows:

<i>Year</i>	<i>Students</i>	<i>Year</i>	<i>Students</i>	<i>Year</i>	<i>Students</i>
2010-2011	114	2011-2012	156	2012-2013	153
2013-2014	120	2014-2015	131	2015-2016	62

In addition to these, an average of 300 students are benefitted through group counselling every year.

- The Departments of Physics, Chemistry and Zoology have mentorship schemes through which large number of students are benefitted on their academic and personal area. The teachers encourage the students to discuss their academic as well as personal challenges. They ensure that the students are provided required support and guidance.
- Short-term training courses, bridge courses and value-added courses are periodically organised by various departments to supplement their academics. A detailed list of such courses is given in 1.1.7.
- Visits to industries / research institutes / field visits / long and short excursions help in reinforcing the basic concepts of the course taught in the classroom and the application of the subject. Through these activities, students also learn to adjust with and care for their peers.
- The Departments also organise lectures by experts where the students freely interact with the resource persons and learn about the career avenues in their courses.
- The Feedback Committee of the College collects feedback of the teachers from the students in an anonymous and unbiased manner and the scope for improvement of the teachers is communicated to them. A detailed questionnaire covering areas like the teacher's knowledge of the subject, preparation for lectures, method of teaching / presentation style, speed of

teaching, ability to answer students' questions, information and examples given, understanding of the subject by the student, interpersonal communication of the students with the teacher, regularity and punctuality of the teacher, discipline and class control, and overall effectiveness of the teacher is used for feedback. This facilitates the enhancement of the teaching quality, thereby making a positive impact on the academic progress of the students.

- The extension activities conducted by DLLE, NCC and NSS units play a pivotal role in cultivating national pride and social responsibility among the students. These activities help in boosting the students' confidence and inculcating strict discipline and team spirit among the students.
- The Placement Cell makes job opportunities available to the students. Campus interviews are often held by leading companies from Business and IT sectors. Students are guided on how to improve their vocabulary, resume writing and soft skills.
- Deserving students from economically weak background are offered financial assistance to pursue their education.

2.3.8 Provide details of innovative teaching approaches / methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

With a focus on *Learning Beyond the Syllabus*, the teachers use a blend of innovative and conventional teaching approaches.

- Tools like posters, diagrams, graphs, charts, maps, 3-D models, preserved and live specimens are used to enhance the conventional lectures. Interactive methods like mock interviews, viva, debates, word games, quizzes, worksheets enhance the participation and interest of the students.
- ICT tools like multimedia presentations are increasingly being used. Simulations and animations are employed for explaining scientific concepts. PhET and Wolfram Alpha are used by the Department of Physics.
- Leading experts are invited to address the students and to make them aware of the latest developments in different fields. e.g. Mr. Sachin Dedhia, cyber-crime investigator and ethical

hacker; Ms. Neela Satyanarayan, Chief Election Officer, Maharashtra State; Mr Bharat Tripathi, Commissioner of Income Tax.

- Seminars and workshops organised for the students facilitate sharing of ideas and skills. e.g. seminars on *Personality Development* by Ms. Charanya Krishnan, on *Challenges in Human Resource Management* by Mr. Arvind Ambekar, on *Opportunities for Higher Education in Israel* by representatives of five universities from Israel.
- Reviews of books, and screening of films and documentaries followed by expert comments and role plays and skits are used to enhance the learning experience. The Departments of Marathi, English and Political Science mainly use these methods along with presentations, group discussions and debates to promote critical thinking.
- Students are encouraged to make class presentations, thereby promoting independent thinking and developing communication skills.
- A smart board has been installed to engage the learners and to enrich the learning experience. OMR sheets, RF Response Cards and MOODLE Learning Management System are used for testing.
- Visits to important institutions are organized to make students aware of the career avenues and research opportunities in their subject. Visits to Giant Meter Wave Radio Telescope (Khodad, Narayangaon), Bombay High Court, Ellora Caves helped the students of Physics, Political Science and History to learn beyond their syllabi.
- Industrial visits are regularly organized to companies like Coca Cola, Sundaram Multipap and Parle G in order to give students exposure to the world of industry.

In view of the rapid changes in the field of higher education due to globalization and technological advancements, teachers are encouraged to constantly upgrade their knowledge and skills. On behalf of the UGC Academic Staff College, University of Mumbai, the College conducted a three-week Refresher Course on *Use of ICT in Science Education*; three teachers of the College participated in this course. Training sessions on the use of MOODLE-LMS for evaluation were conducted for the teachers by the IQAC. Besides the mandatory Orientation and Refresher Courses, teachers are motivated to attend training programmes in their subject area e.g. Ms. Priti Kharbe from the Department of IT completed an advanced course on Excel at the Computer Society of India; three teachers attended international training programmes on education at Aharon Ofri Centre, Israel.

2.3.9 How are library resources used to augment the teaching- learning process?

The College Library functions as an excellent resource for teachers and students. The library has the following features:

- More than 1.25 lakh books which include text books, reference books, research journals, magazines, newsletters, technical publications, encyclopedia, pharmacopeia etc.
- A collection of rare first editions of books a unique feature of the library.
- Easy access to the users as the Library remains open from 9 am to 5 pm on all working days and till 8 pm during the examination period. It extends its facility not only to the current students and teachers but also to the alumni, retired teachers and scholars for learning and reference work.
- The Library is well catalogued and computerised. The students use OPAC to browse the collection using key words like author's name, name of the book, subject etc. and select books of their choice.
- The information about the library is available on college website through library web page accessible on any computer in the campus. The process of creating a digital repository is in progress.
- The book bank scheme of the College helps needy and deserving students to borrow text books prescribed in the syllabus.
- The new arrivals in the library are displayed and communicated to the students, teachers and others through exhibits and notices.
- The content page of research journals is regularly sent by email to all teachers.
- A digital repository of question papers is made available to the students.
- Reprographic facility is available for students and teachers.
- Book Exhibitions are regularly organised by the Library.
- In addition to the College Library, the Departments of Physics, Chemistry, Botany, Zoology and Psychology have departmental libraries with text books and reference books to cater for specific immediate reference.

Department	No. of Books	Department	No. of Books
<i>Botany</i>	50	<i>Psychology</i>	404
<i>Chemistry</i>	332	<i>Zoology</i>	125
<i>Physics</i>	1220		

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to over come these.

The academic calendar is planned for the given time frame in advance to ensure its efficient / timely implementation. Every teacher makes a teaching plan in which the allotted syllabus is distributed within the timeframe by considering the periods of tests, assignments, semester end examinations and other events. In case of unforeseen events, the teacher ensures that the curriculum is completed without compromising the quality of work. Extra lectures, lecture synopsis, seminars are adopted to achieve the target. The College ensures that the academic time is not lost or compromised.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The College gives utmost priority to imparting quality education. To monitor the teaching efficiency, the feedback of all teachers is obtained from the students. The teachers maintain a Teacher's Diary wherein they keep a systematic record of their academic activities. The Diary is verified by the Head of the Department the Principal. Teachers submit a declaration at the end of every semester declaring the completion of syllabus within schedule. A self-appraisal form is duly filled by every teacher towards the end of the academic year. It helps the teacher to self-analyze and gives him / her scope to improve. An academic audit was conducted in 2014-2015. The feedback from the external experts was used to improve the teaching-learning process.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

The process of faculty recruitment is systematic and rigorous, strictly adhering to University of Mumbai and Government guidelines. A common roster for teaching faculty is maintained by the Management; it is verified by the General Administrative Department of Government of Maharashtra and the Special Cell of the University of Mumbai. Before the publication of advertisement inviting applications, its contents are approved by the Special Cell with reference to the roster. A No Objection certificate (NOC) is obtained from the Joint Director of Higher Education, Mumbai Region. The advertisement is then published in national newspapers such

as *Indian Express* and regional newspapers such as *Lokasatta* to ensure wide publicity. It is also communicated to the following Government bodies: the District Tribal Development Officer; the Director and Project Officer, Integrated Tribal Welfare Project; the District Social Welfare Officer; the Director of Social Welfare, Samaj Kalyan Sanchalanalay; the Deputy Divisional Employment Officer and the Sub-Regional Divisional Employment Officer, The University Employment Information and Guidance Centre. As per the statutes of the University of Mumbai, a selection committee is constituted of nominees of Vice Chancellor and Management, subject experts appointed by University and the College, Joint Director and the Principal. On the basis of the decisions of the committee, the faculty is selected on the basis of merit.

As per the requirement, based on workload, retirement of teachers and for un-aided courses, teachers are appointed on Ad hoc or Clock Hour Basis till the procedure for regular appointments is completed.

The teachers enhance their skills by attending Orientation and Refresher courses, and the workshops conducted by the Board of Studies in the respective subject when the syllabi get revised. Training sessions are organised by the IQAC to acquaint the teachers with current trends in education. The teachers are motivated to take up research activities.

Faculty strength in 2015-2016

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	<i>Male</i>	<i>Female</i>	<i>Male</i>	<i>Female</i>	<i>Male</i>	<i>Female</i>	
Permanent Teachers							
Ph.D.	-	-	04	05	03	10	22
M.Phil.	-	-	-	05	02	-	07
PG			01	03	09	08	22
Temporary teachers							
PG	-	-	-	-	19	26	45
Part-time teachers							
PG	-	-	-	-	-	01	01
Total							97

2.4.2 How does the institution cope with the growing demand / scarcity of qualified senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

The College offers the self-financing programmes - Bachelor of Management Studies (BMS) and Bachelors and Masters in Information Technology (IT). The availability of expert teachers for these programmes is monitored by the Programme Coordinator along with the senior teachers. A selection committee comprising the Principal, the Vice Principals, the Programme Coordinator and the Registrar interviews the prospective candidates. Visiting faculty is invited from various fields, to impart hands-on skills and domain knowledge to the students. The teachers attend workshops, short term courses in the relevant area. The teacher quality is reflected in the results of these programmes which are always higher than the University results.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

Teachers attend orientation and refresher courses, staff training programmes, other development and softskills courses. The details of teachers who have attended these courses in last five years are as follows:

Participation in Orientation Programmes:

2010-11	Mr. Hanumant Lokhande (English) Mr. Mandar Bhawe (Information Technology and Computer Science)
2011-12	Mr. Arvind Ganveer (History)
2012-13	Dr. Kshitij Chavan (Chemistry) Mr. Sandeep Kadam (Philosophy)

Participation in Refresher Courses:

2010-11	Dr. R. K. Jadhav (Botany) Dr. Abhaya Chitre (Mathematics)
2011-12	Dr. Jyoti Patil (Chemistry) Mr. Ravindra Netawate (Commerce) Mr. Avinash Kolhe (Political Science) Mr. Nitin Wasnik (Zoology)

2012-13	Dr. Kshitij Chavan (Chemistry)
2013-14	Mr. Sandeep Kadam (Philosophy) Mr. Ganesh Madkaikar (Physics) Mr. Hanumant Lokhande (English) Ms. Anagha Mandavkar (Marathi)
2014-15	Dr. Krishnakant Waghmode (Chemistry) Dr. Rekha Gore (History) Ms. Preeti Kharbe (Information Technology and Computer Science) Mr. Ganesh Madkaikar (Physics)
2015-16	Ms. Gayatri Gadgil (English) Ms. Deepali Bhide (Geography) Mr. Arvind Ganveer (History) Dr. Rekha Gore (History) Mr. Vithal Shinde (Mathematics) Dr. Anupama Muzumdar (Philosophy) Mr. Nitin Wasnik (Zoology)

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning Teaching learning methods/approaches, Handling new curriculum, Content/knowledge management, Selection, development and use of enrichment materials, Assessment, Cross cutting issues, Audio Visual Aids/multimedia, OER's, Teaching learning material development, selection and use

Programmes for the Teaching Staff

- A three-week Refresher Course on *Use of ICT in Science Teaching* was conducted by the College on behalf of the UGC Academic Staff College, University of Mumbai from 29th September – 18th October 2014. Three teachers from the College participated in the course.
- A two day workshop on *Biostatistics in Teaching and Research* sponsored by Lady Tata Memorial Trust was organised for teachers in Life Sciences by the Department of Zoology on 4th and 5th September 2015.
- IQAC organised a seminar titled *Goals and Action Plans* on 21st June 2014 during which each department presented SWOC analysis and one best practice. This was evaluated by external experts, who gave valuable feedback about the performance of each department on.

- IQAC organised a session on training the teachers to enhance student effectiveness, in which a talk on *Healthy Living: Fitness and Diet Basics for Students* was conducted on 20th June 2014.
- IQAC organised a seminar on *Question Paper Formats for Assessment with special focus on MOODLE* in which information was given on various formats of the question papers, with hands on practical training on Moodle software on 28th June 2013
- IQAC organised an interactive talk on *Empowering the teacher to bring dynamic and significant learning in the classroom* by Mr. Rajesh Dalal, Senior Member, Krishnamoorthy Foundation on 9th February 2012.
- A two day workshop on *Bioinformatics* sponsored by Lady Tata Memorial Trust was organised for teachers in Life Sciences by Department of Zoology on 19th and 20th February 2011.
- A workshop on *How and Why to use the Library – a Practical Analysis* organised by the Library on 9th February 2016.

Development programmes for non-teaching staff:

- Workshop on *Use of Excel* conducted by IQAC for the office staff on 25th April 2016.
- Workshop on Use of Vriddhi software for Administration for the office staff on 22nd February 2014.
- Sports Day including management games and team-building exercises is organised for the support staff to improve interaction, communication and morale every year since 2013.
- Non teaching staff were encouraged to attend the two day Certificate courses organised by Department of Physics -
 - *Maintainence of Laboratory Equipment* in August 2014
 - *Know your Household Electrical Appliances* in April 2015
- Workshop on *Stress Management* by Ms. Amruta Padhye in June 2013
- Workshop on *Effective Communication and Soft Skills* by Ms. Gayatri Gadgil in June 2013.
- Training in soft skills at the beginning of the academic year 2011-2012.
- A guidance session on *Writing Effective Business Letters* for the office staff by Ms. Gayatri Gadgil on 6th January 2011.
- A talk titled *Anandi Man Sukhi Jeewan* by Ms. Pratima Havaladar on 31st March 2011.

- A five day workshop in SOUL software for Library staff members from 25th February to 1st March 2013.
- A one-day workshop on *Library: An Introduction* for Library staff members conducted by the Librarian on 1st January 2016.

c) Percentage of faculty

Invited as resource persons in workshop / seminars / conferences organised by external professional agencies:

Year	2010-11	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
% of faculty	21%	22%	14%	20%	18%	22%

Participated in external workshops, seminars, conferences recognised by national, international, professional bodies:

Year	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
% of faculty	27%	30%	10%	11%	22%	18%

Number of papers presented in workshops, seminars, and conferences conducted or recognised by professional agencies:

Type of publication	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Papers presented in National Conference	01	05	15	15	16	20
Papers presented in International Conference	06	04	03	04	03	13
Abstracts published in International Conference proceedings	-	-	-	-	03	05
Abstract published in National Conference proceedings	-	-	-	-	02	03

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialised programmes industrial engagement etc.)

- Teachers are granted special leave; adjustments are made in their Time table so as to enable them to pursue research related activity. Teachers can avail the facility of UGC FDP if required.

- Teachers are encouraged to publish and present research papers at seminars, conferences and workshops.
- The College has a Research Committee which coordinates the work related to research. The College also has a Central Research Laboratory, developed from the grants received from UGC, DST - FIST and College, to encourage research in Science subjects. Dr. Madhavi Indap, Professor Emeritus, guides the teachers for research.
- On the recommendation of the Research Committee, the College has initiated the *R-Quest* scheme to offers research grants to the teachers, who cannot avail it under the UGC or recognized bodies, as they are appointed on ad hoc basis.
- Infrastructural facilities for research are made available as per the requirements.
- The information about the various research grants offered by institutions like UGC, ICSSR is conveyed to teachers through the staff notice board, staff meetings and meetings with the Heads of Departments.
- The College Library subscribes to research journals.

2.4.5 Give the number of faculty who received awards/recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The healthy and conducive academic environment in the College, the encouragement given for extra- and co-curricular activities and the access to required facilities has culminated in prestigious awards and recognitions being conferred on the teachers. The following teachers have received awards and recognitions:

- Dr. Madhavi Indap was conferred the fellowship of ***Professor Emeritus*** by UGC in 2011.
- Dr. Nandini Pai, former Head, Department of Chemistry was honored with the ***Best Teacher Award*** by the Government of Maharashtra for the year 2009-2010 in a special function held on 4th September 2010.
- Dr. Tushar Desai, Principal was honored with the ***Best Teacher Award*** by the Government of Maharashtra for the year 2008-2009 in a special function held on 4th September 2010.
- Dr. Vikas Golatkar, Head, Department of Botany was awarded ***Best Teacher Award*** by University of Mumbai by the Honorable Vice Chancellor on 5th September 2012.

- Dr. Nandini Diwan was awarded the *Smt. Savitribai Phule Adarsha Shikshika Puraskar* of the University of Mumbai for 2010-2011.
- Dr. Neeta Tatke was awarded *Hirkani Puraskar* by *DD Sahyadri* for the contribution in the field of Mallakhamb on 26th February 2015.
- Dr. Neeta Tatke received a special recognition letter and trophy from Yoga Forum, Munich, Germany, for her consistent contribution in propogation of Indian Traditional Physical Culture, Mallakhamb in Munich in September 2013.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

The College has a Feedback Committee which collects and analyses the feedback from the students.

Feedback about all the teachers is taken at least once in the year. ICT-enabled tools like RF Response Cards, MOODLE and OMR sheets are used to collect feedback. The feedback is analysed and discussed by the Principal with the teachers on one to one basis. This helps the teachers to enhance teaching skills and take measures to improve on the basis of feedback received from the students.

Every teacher maintains a teacher's diary, which consists of detailed teaching plan, the lectures conducted per day, content taught and other academic work. These diaries are monitored by the HOD / Senior teacher. They are submitted to Principal at the end of each semester so that they can be evaluated to meet the learning objectives of the syllabi of the subject.

Apart from the formal feedback process, any parent or student can meet the Principal and the Vice- Principals without prior appointment for their suggestions.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The entire examination procedure, evaluation system, question paper pattern, ATKT rules are decided by the University and are meticulously followed by the College.

Students: The stakeholders of the institution are made aware of the evaluation processes through

the Notice Board outside Examination Department. Important information about examination system is also printed in the prospectus of the College, which is given to all the students with the admission form. It is also available on the website of the College.

The Credit Based Semester and Grading System was introduced by the University of Mumbai from the academic year 2011 – 2012. Parents of the students of FYBA / BSc / BCom are made aware of the new system of assessment through meetings addressed by the Principal at the beginning of every academic year.

Students of the first year classes are given information about the examination system by the Principal and Vice Principals at the beginning of the year. Subsequently, every teacher informs the students about the question paper pattern, and the evaluation system in the classes they teach and this information is repeated at regular intervals. The students are encouraged to visit the websites of the College / University of Mumbai regularly.

A special meeting of all the students who are appearing under ATKT (Allowed To Keep Terms) is called to make them aware of the examination rules. Regular notices about all these are displayed on the Notice Boards and for all the additional queries and doubts the students approach the examination department or the respective subject teachers.

Sample questions and model answers are discussed with the students to prepare them for the examinations. The question paper sets of the previous examinations are made available to students for reference in the Library.

Teachers: Whenever the pattern of examination is modified, information about it is regularly given to teachers in teachers' meetings and meetings of the Heads of the Departments. The teachers also attend workshops on revised syllabi, discuss about the evaluation pattern and process. Many teachers have formed groups on social networking sites, such as WhatsApp and Google groups; the University circulars and evaluation related process are circulated to members in the group. A large number of teachers are examiners, paper-setters and moderators for University examinations. A few teachers are Chairpersons for their subjects at the University examinations. This also makes teachers aware of the evaluation process, modifications and updates.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are there forms initiated by the institution on its own?

The Credit Based Semester and Grading System was introduced by the University of Mumbai from the academic year 2011 – 2012. The entire examination, moderation and revaluation is carried out as per University norms.

The College has introduced certain reforms for the smooth conduct of all examinations.

For conducting Class Tests for internal assessment, the College uses ICT tools. Some departments conduct the examination using modern methods like OMR, RF Response Cards and MOODLE. High-end scanner is used for the processing of OMR sheets. These techniques help the students to prepare for various competitive examinations. The students responded enthusiastically to the use of these methods for examination.

Such use of advanced technology not only reduced the time spent in assessment work by teachers, but has also helped in saving paper and thereby following eco-friendly approach. The error-free results are immediately available after the conduct of examination.

The University of Mumbai had prescribed objective questions in the pattern of the Internal Test. To facilitate teachers in the creation of objective, multiple choice tests, a workshop on *Question paper formats for assessment with special focus on MOODLE software for class test in semesters* was conducted by the IQAC on 28th and 29th June 2013. The teachers created a question bank, which is used to generate different question paper for every student.

All the teachers are given an MS Word-based question paper template, which ensures standardization in format and printing of papers.

All the teachers are required to submit a detailed solution key of the question papers they set. This has improved transparency of evaluation. For the semester-end examinations, the teachers are given MS Word-based question paper template, which ensures standardization in format and printing of papers.

The question papers for the examination are submitted through the Head of the Department or a senior teacher to ensure that the the prescribed pattern given by University of Mumbai has been followed.

Some teachers also make use of Excel based in-house developed software for automatic generation of question papers with randomized questions.

The Examination Committee of the College ensures the smooth conduct of the entire examination process from declaration of timetable to the declaration of the results. The Unfair Means Inquiry Committee has been constituted as per the norms of the University of Mumbai.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

In 2012 – 2013, the College introduced the practice of printing and photocopying the question papers in-house. This has led to greater confidentiality in the examination process. The Department of Information Technology uses Excel-based in-house developed software for automatic generation of question papers with randomized questions. A reprographic machine and a high-end photocopier were purchased to facilitate in-house printing of question papers. Meetings are held by the Principal to inform the teachers about evaluation reforms made by the University. All the circulars related to examination are available in the Examination Department. Important circulars are sent to every department and are made available in the Faculty common room. Teachers are given detailed guidelines and instructions for assessment in the form of a printed handout.

All the answerbooks are assessed under the Centralised Assessment Programme. The record of answerbooks issued for assessment and total answerbooks assessed per day is meticulously maintained.

A detailed solution key is submitted by the paper setter to the examination department, before the assessment of the answerbooks begins. This solution key is given to the moderators and the external examiners who re-evaluate answerbooks. This ensures uniformity in the assessment pattern.

The data entry of the marks is checked by the examination committee, so that it is error-free. The entire result generation and mark sheet printing process is computerised and all the software has been developed in-house, with the help of the Department of Information Technology. In-house developed Excel-based software has been provided to departments for result analysis. To maintain transparency and confidentiality, the entire work of the Examination Department is carried out under CCTV surveillance.

The entire schedule of the examinations, from time-table to declaration of the results is displayed on the notice boards well in advance. For the last three years, the College has procured the SMS gateway facility to inform parents about the declaration of the results.

Under the Credit Based Semester and Grading System (CBSGS), initially the students were required to submit assignments for all the subjects. The students were encouraged to use variety of innovative and creative methods like application-based studies, surveys, models, reports of the visits, presentations and short films.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

The College makes an attempt to enhance student potential by focusing on overall personality development through academic, extra-curricular and co-curricular activities. The College has 22 associations, which encourage students to participate in activities, talks, field visits and other programmes organised by them. This helps in developing leadership qualities, soft skills and helps them to learn beyond the classroom. When the Credit Based Semester and Grading System (CBSGS), involved assignments for all the subjects, students were asked to make presentations in the classroom and use innovative and creative methods. The students were exposed to modern methods of giving examinations using MOODLE, OMR and RF Response Cards.

Meetings were held to make the parents aware of the Credit Based Semester and Grading System introduced by the University of Mumbai. Orientation sessions were held for students of FYBA, BCom and BSc to inform them about the importance of obtaining good grades in each semester in order to get a good CGPA. Some departments have a mentoring system, give remedial coaching to students and offer guidance to repeaters. Meeting of the students who have been unsuccessful in one or more subjects in the semester examination is conducted on the result declaration day to give them guidance about the preparation for additional examinations.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

As per the guidelines of the University of Mumbai and the Boards of Studies in various subjects, the marks for internal assessment under 60:40 pattern were divided among class test, assignments, class participation and good conduct including attendance. The students and the parents were informed in detail about these procedures. Assignment topics were discussed, submission dates were declared on notice boards. Records about students' attendance,

presentation skills were meticulously kept. The assignment component was withdrawn by the University when the 75:25 pattern was introduced.

The teacher informs the students about the portion for the class test well in advance and also explains the details of the evaluation process. The importance of doing well in internal assessment is emphasised in the parents meeting and during the subject lectures.

Attendance in the class, records of participation in the programmes organised by the departments and College are referred to while awarding the marks for class participation and good conduct. When the students were required to submit assignments, it was ensured that wide variety of topics get chosen in the class, reference work was encouraged and help was extended from teachers to do presentations, for field visits and any other creative method. The entire record of internal assessment marks has been meticulously maintained.

2.5.6 What are the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

The motto of the College is ***For the spread of light***. In accordance with its mission statement, the College aims to create and disseminate an atmosphere of learning and research of a high academic, professional, ethical and ecological standard in which students can gain knowledge and skills encompassing a wide range of disciplines - humanities, physical, biological and social sciences, law, technology, management and commerce - which will result in multidimensional personality development of the students and will enable them to fulfill the needs of industry and the community at large.

The College ensures the attainment of overall development of the student through participation in research, attending workshops, seminars and conferences, participating in programmes on *Learning Beyond the Syllabus*, organizing and assisting in departmental and association programmes. The entire College Day events – the Scholars’ Day and the Gymkhana Day, the other activities of the College are managed by the Students’ Council appointed as per the norms of the University. Different student leaders are appointed to manage participation in intercollegiate activities and festivals.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The official mechanism involves moderation of the assessed answer books as per the norms of the University. If the students are not satisfied with the evaluation, they can apply for photocopy, verification or re-evaluation of the answerbook, as per the University norms. The students can approach the Student Grievance Cell established by the College or communicate with the Principal through the Complaint / Suggestion Box. As per the Open Door Policy of the College, the students and parents can directly approach the Principal to verify their marks or to express grievances, which are promptly attended to.

For grievances at the University level, students are assisted in applying to the University for re-evaluation.

After the internal examination, the teachers discuss the performance of the students in the class, although the individual marks are not revealed to the students as per the University norms. Constructive feedback is given to students. If the performance of the student is consistently poor or if major deviations are noticed in the answerbook, the parents of the student are contacted and remedial methods are suggested.

2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes. The College has clearly stated the learning outcomes in its Vision and Mission. The Principal emphasises the learning outcomes in meetings with staff, students and parents.

The Vision and Mission are printed in the prospectus, displayed on the strategic locations of the College and posted on the website. They are clearly stated during the orientation sessions conducted by the Principal, Vice Principals, Coordinators and the Heads of the Departments. The learning outcomes specified by the University in the syllabi are informed to the students at the beginning of the year.

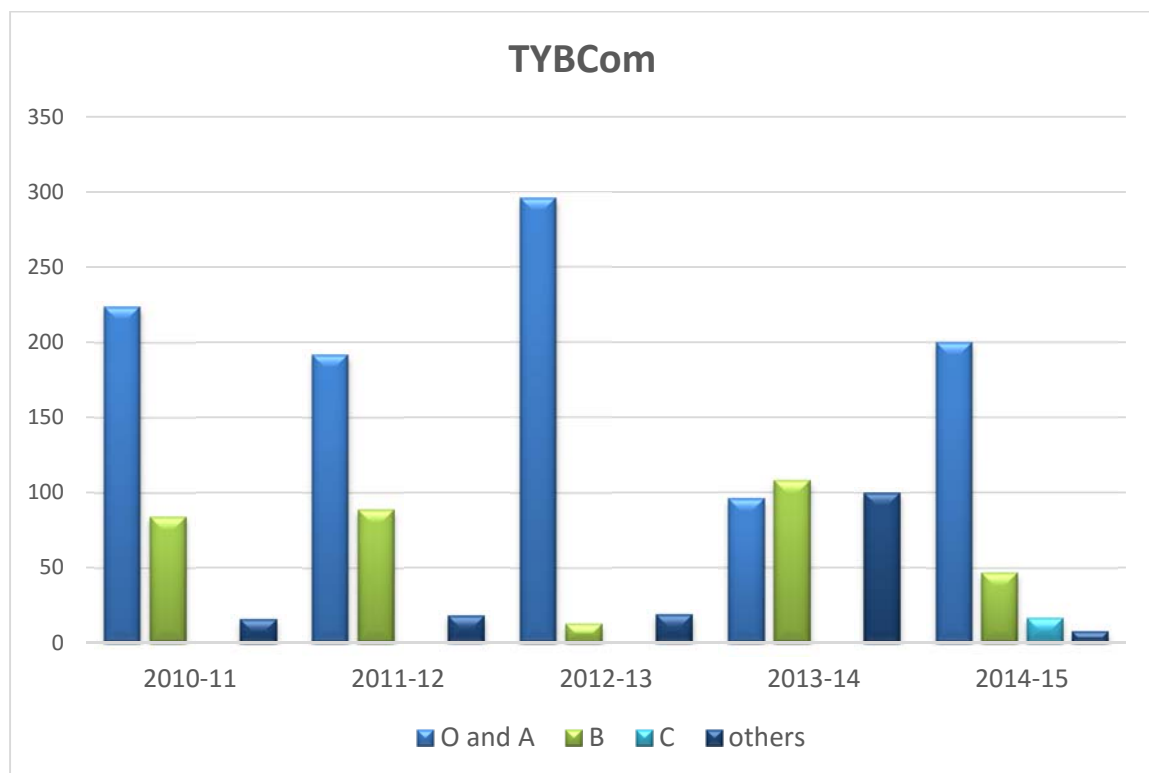
The list of endowment prizes is published in the prospectus. The meritorious students are felicitated on Annual Scholars' Day of the College. In order to promote academic excellence, Modern Education Society felicitates the student standing first subjectwise, with minimum 75% as aggregate score. The photographs of these students are published in the College magazine

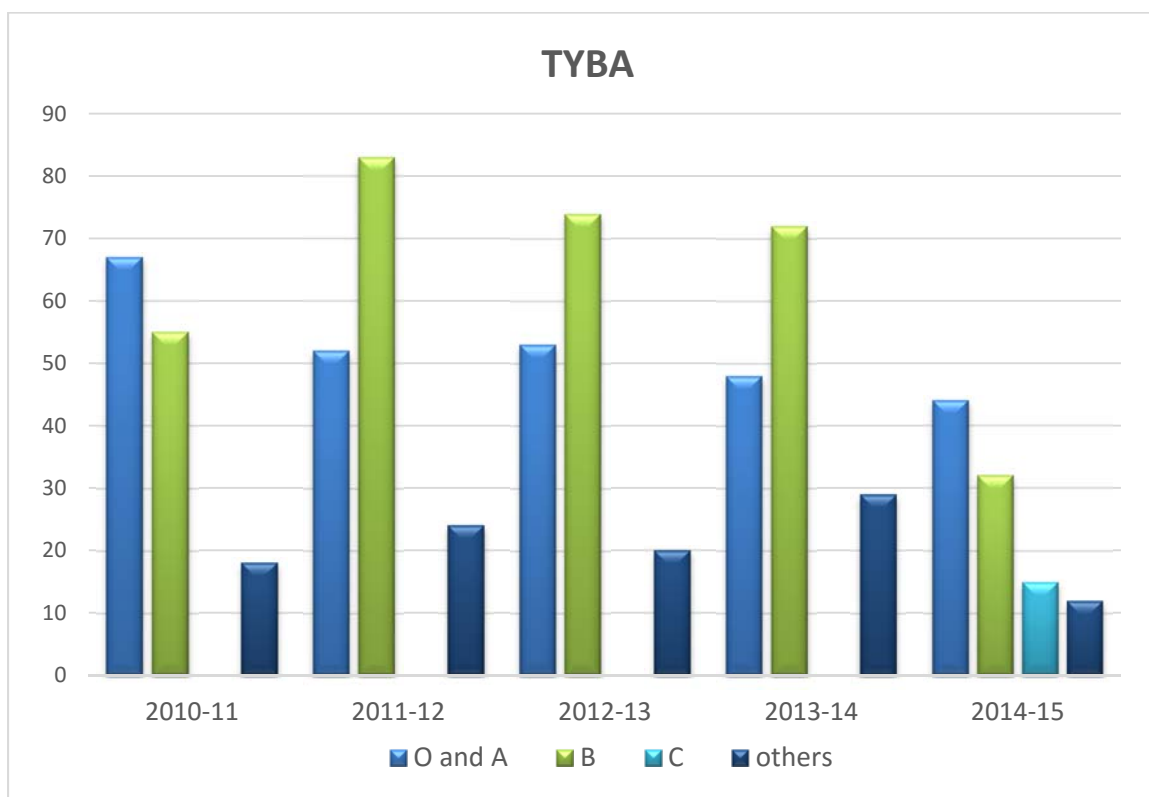
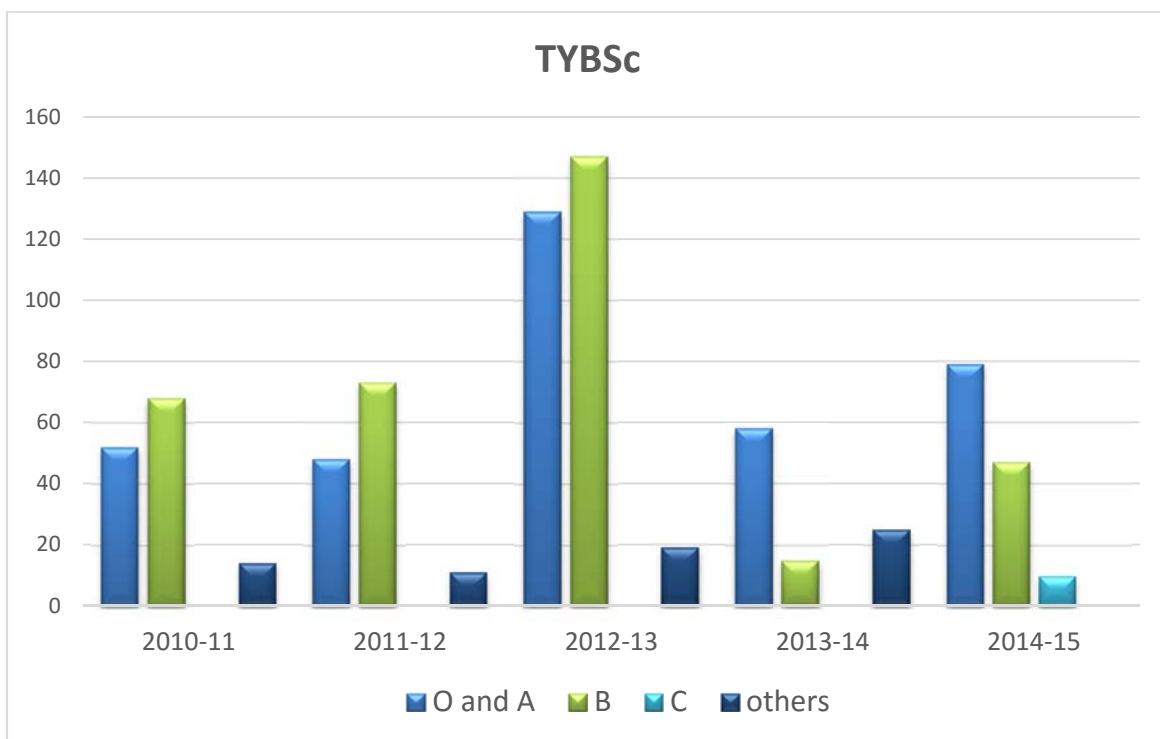
Imprints. A special interaction of meritorious students with the Chief Guest who has been invited to award the prizes on the Annual Scholars' Day is organised.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results / achievements (Programme / coursewise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

The progress and performance of students is monitored during lectures and practical sessions by taking oral feedback. In certain cases, parents are informed and personal counselling is recommended.

The students' result analysis is given below:





2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The teachers prepare a teaching plan at the beginning of the year. This plan, with the details of the syllabi is communicated to the students. The students are also made aware of the examination schedule and the tentative programme of various extra curricular and co-curricular activities, departmental programmes, inter-collegiate festivals and events and any other activity which is aimed at overall personality development. This helps the students to plan ahead and achieve an appropriate balance in academic and other activities.

The teachers use variety of methods in the classroom including presentations from the students, quizzes, class tests, discussion of model answers, giving sample questions and model answers to help them to assess the students and also to reach out to them keeping in mind their abilities. High performing students are encouraged to take research projects, participate in conferences and seminars.

Separate meetings of low performing students are conducted to make them aware of the effective study skills and evaluation processes. Thus the entire system is oriented to cater to the needs of high, average and low performing students.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The College conducts a variety of talks, workshops, seminars on issues related to social and economic aspects, career opportunities and to enhance overall development of the students.

The activities of the departments, interactive sessions, seminars and field visits organised help the students to learn beyond the syllabus and to bridge the gap between the academia and work demands through real life experiences. Development of soft skills is emphasised as per the demands of the industry.

The activities of Science Association, DLLE, NSS and NCC units cater to the needs of senior citizens, students from the Municipality Schools and other local citizens. The students perform street plays to create awareness on social issues, projects of social relevance are undertaken; through science exhibitions the College reaches out to several school students helping them to learn basic principles of science.

Keeping in view the demands and pressures of the hectic lifestyle today, special sessions on diet and exercise, and financial planning are conducted for students.

Students are also encouraged and guided to pursue research. Since 2014-2015, through the *R-Quest scheme*, the College funds minor research projects by the students. The 22 co-curricular associations attempt to create interest in different subjects. The activities of the associations are managed by the students, promoting team spirit and event management skills. The students participate in collegiate festivals and events which are aimed at overall personality development. The Annual College Days provide a showcase for the students' talents.

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

An Excel-based software has been developed at College level to analyse the results in detail. *Effective Study Skills* sessions are conducted for students and remedial teaching is offered where necessary. Though the medium of instruction of the College is English, students who have a major language handicap are allowed to write answers in Marathi wherever applicable.

Students are given feedback about their performance and their parents are also informed if necessary. Student performance is also monitored through class tests, assignments, presentations and other co-curricular activities. Performance is also monitored through discussions on current events, book reviews, and *Learning Beyond the Syllabus* activities. Students are encouraged to participate in College and Inter-Collegiate events and competitions.

The entire result and its analysis are readily available through the use of an Excel-based software developed in-house. The entire result of the student for all the semesters can be accessed by entering the roll number. This helps in giving feedback to the students and the parents and also keeps the Management informed about the performance of the students.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The students' attendance, class participation and performance in examination is monitored. A list of defaulters is prepared by every teacher and various methods are used to encourage students to attend lectures regularly. Parents' meetings are conducted to convey the progress of the students. Various classroom methods of teaching, including quizzes, discussions and presentations also help to monitor the learning outcome. Analysis of results is another method used to study the overall trend of results and accordingly extend help through class tests, sample questions and

model answers and remedial coaching. Students are encouraged to take up research projects and participate in a variety of activities to develop soft skills.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples

Yes, the institution and individual teachers use assessment / evaluation outcomes as an indicator for evaluating student performance. With the help of the feedback given by the students and their performance in class tests, advanced learners and low performing students are identified. Advanced learners are given extra reference material while low performing students are given remedial assistance. Students are given sample questions and the answers written to them are assessed and feedback is given to them for improvement. Question papers of the College and University examinations are kept in the Departments and are also available in the Library. Remedial coaching, revision lectures, preliminary examinations are conducted.



Criterion 3

Research Consultancy and Extension

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

Yes, The College has post-graduate and doctoral Research Centres, recognized by the University of Mumbai, for Botany, Chemistry and Zoology.

For promoting interdisciplinary research in Physics, Chemistry, Botany and Zoology, the College has established a **Central Research Laboratory – Basic and Applied Research** with funding from UGC and DST-FIST.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the College has formulated a Research Committee to boost the research activities. The Principal is the Chairperson of the Committee. The members of the Committee are teachers from different faculties with wide experience and active contribution in research; one of the members, Dr. Madhavi Indap is Professor Emeritus.

Two major recommendations made by the Research Committee were:

- To augment the research activities, the committee recommended that systematic efforts be made to give information to students and staff about scope and avenues for research. Accordingly, talks were conducted to create awareness about the research process. More students were encouraged to participate in research-related activities. There is a substantial increase in research conducted, presented and published by teachers (for details please refer 3.4.3 and annexure-3). Students actively participated and won prizes in Avishkar Research Convention conducted by University of Mumbai with guidance and motivation from the Avishkar Committee of the College.
- The Committee recommended that research grant be provided to the non-permanent teachers and students, as they are not eligible for funding from the University /UGC. The *R-Quest* scheme has been implemented from the academic year 2015-16, wherein the College provides funding for minor research projects. The Research Committee scrutinized the applications received under the *R-Quest* Scheme and made recommendations for financial

assistance. A total grant of ₹ 50,500/- was disbursed for 14 minor research projects.

The detailed list of Minor Research Projects sanctioned under R-Quest scheme for the year 2015-16 is given below:

No	Name of the Researcher	Teacher/ Student	Title of the project	Amount Sanctioned
1	Sagar Tipnis	Teacher (Commerce)	A study of ICT used in Teaching	₹ 2,500/-
2	Rohini Shinde	Teacher (Commerce)	Study of Consumer behavior towards the E-Shopping	₹ 2,500/-
3	Priti Kharbe	Teacher (Information Technology)	Evolutionary Algorithms and Digital Circuit Design	₹ 2,500/-
4	Ruta Patwardhan	Teacher (Psychology)	Exploring Relationship between Multidimensional Locus of Control and Self-esteem.	₹ 2500/-
5	Ujali Shirodkar	Student (TYBSc Zoology)	Role of Visual and Chemical Cues in Feeding Behavior of a Lepidopteron Species.	₹ 4,000/-
6	Bhagyashree Ghag	Student (TYBSc Zoology)	Antibacterial and Immuno-modulatory Potential of a Marine Vertebrate and its Associated Bacteria.	₹ 4,000/-
7	Shraddha Shirsat	Student (TYBSc Zoology)	Bioactive Potential of Marine Invertebrate and Associated Bacteria.	₹ 4,000/-
8	Sailee Sakhalkar	Student (TYBSc Botany)	Effects of Phytocompounds obtained from Laboratory Culture of Phytoplankton Collected along Mumbai Coast.	₹ 4,000/-
9	Omkar Girkar	Student (FYBSc Mathematics)	Primes in Mathematics	₹ 1000/-
10	Rohan Salgaonkar Urvi Nansi	MSc (Physics)	Synthesis of GaSb Thin Film as a Semiconductor Material and its Characterization	₹ 11,000/-
11	Priya Trivedi Akshata Shirodkar	MSc (Physics)	Synthesis of InSbBi thin film as a Thermoelectric Material.	₹ 7,000/-
12	Harikrishanan Nair Atharva Rawte Ravi Gupta Amit Chavan	Students (SYBSc Physics)	Study on Solar Prominence	₹ 2500/-
13	Vishal Upadhyay Vaishali R Swarada M	Students (FYBA Psychology)	To Study the Correlation Between Social Media Usage and Level of Anxiety Among the College Students.	₹ 1500/-
14	Shreeya Rajadhyaksha Siddhi Khapre Ruhi Kadam	SYBA	A Survey of Promotion of health Behaviors in Corporate Offices	₹ 1500/-
Total				₹ 50,500/-

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

Recognising that research is a crucial component of quality education, the College provides a supportive and conducive environment for research.

The measures used to promote research and facilitate smooth progress and implementation of research schemes/projects are:

Teachers and students are regularly informed about the various schemes of UGC and other funding agencies. This information is displayed on the notice board and also e-mailed to teachers.

- **Autonomy to the principal investigator:**
Yes, autonomy is given to the principal investigator for selection of research topic and implementation of the project.
- **Timely availability or release of resources:** The College supports the teachers in the process of obtaining funds from various agencies in a timely manner and following up in case of delays in the release of funds.
- **Adequate infrastructure and human resources:** The College has adequate infrastructure in the form of laboratories, equipments and instruments, computers and information technology. Laboratory assistants and peons are deployed for support where required.
- **Time-off, reduced teaching load, special leave etc. to teachers:** Adjustments in the timetable are considered as per the needs of teachers pursuing research. Duty leave is granted for participation in seminars, conferences and workshops. Leave under UGC FDP (for Doctoral research) is granted.
- **Support in terms of technology and information needs:** The UGC Resource Center, the faculty room, the library and all the departments are equipped with computers, printers and internet. The Library has subscribed to INFLIBNET.
- **Facilitate timely auditing and submission of utilization certificate to the funding authorities:** The College Office facilitates the timely auditing and submission of utilization certificate to the funding authorities by providing the required documents and information.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

In accordance with the Mission and Vision of the College, every effort is made to inculcate scientific temper and to enhance the research culture.

- The College has been the venue for organizing Avishkar Research Convention, for University of Mumbai for two years in a row.
- In addition to this, the College funds the research expenses incurred by the students for representing the College in Avishkar Research Convention organised by the University of Mumbai.
- Under **R-Quest** Scheme of the College, funding and infrastructure support is given to students for minor research projects.
- The College also hosts *Chai and Why*, a monthly lecture series in collaboration with TIFR to popularize scientific concepts among the students.
- Numerous talks, activities like poster competition, exhibition on scientific topics are arranged through Science Association.
- Experts from various fields are invited to conduct guidance sessions for students.

Some examples of these guidance sessions are:

- *Use of Statistical Package for Social Sciences (SPSS)* by Department of Statistics.
- Session by Dr. Madhavi Indap, Professor Emeritus on the *Process of Preparing a Research Proposal for Funding*.
- Guidance session for teachers by Dr. Ramesh Sane on *How to Motivate Students to participate in the Avishkar Research Convention*.
- Guidance sessions for students by Dr. Vaishali Rajurkar on *Preparing and Presenting Research Projects for Avishkar Research Convention*.
- Workshop on *Research Methodology* organised by Department of Zoology.
- Workshop on *Research Methodology* organised by Department of Commerce.
- The Department of Management Studies organised a talk by Dr. Sithalaxmi (Vice-Principal, SIES College) on *Pursuing research in Commerce*.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

The College offers post-graduate and doctoral research programmes in Botany, Chemistry and Zoology. For promoting interdisciplinary research in Physics, Chemistry, Botany and Zoology, the College has established a **Central Research Laboratory – Basic and Applied Research** with funding from UGC and DST-FIST.

The list of recognised guides and their students is given below:

2010 - 2011

Subject	Name of the guide	Number of students
Botany	Dr. Sudha Sawant	02 (PhD)
Chemistry	Dr. Nandini Pai (retd.)	06 (PhD)
	Dr. Damodar Shanbhag	01 (Msc)
	Dr. Rajan Rele	01 (MSc)
Zoology	Prof. Madhavi Indap	01 (PhD)

2011 - 2012

Subject	Name of the guide	Number of students
Botany	Dr. Vikas Golatkar	01 (PhD)
	Dr. Sudha Sawant	01 (PhD)
	Dr. Mangala Heble	04 (PhD)
Chemistry	Dr. Nandini Pai (retd.)	02 (PhD)
	Dr. Rajan Rele	02 (MSc)
Zoology	Prof. Madhavi Indap	01 (PhD)

2012 - 2013

Subject	Name of the guide	Number of students
Botany	Dr. Vikas Golatkar	01 (PhD)
	Dr. Sudha Sawant	01 (PhD)
	Dr. Mangala Heble	04 (PhD)
Chemistry	Dr. Nandini Pai (retd.)	03 (PhD)
	Dr. Rajan Rele	04 (MSc) , 01 (PhD)
Economics	Dr. Prakash Salvi	01 (PhD)
Zoology	Prof. Madhavi Indap	05 (PhD)

2013 – 2014

Subject	Name of the guide	Number of students
Botany	Dr. Vikas Golatkar (retd.)	01 (PhD)
	Dr. Mangala Heble (retd.)	04 (PhD)
Chemistry	Dr. Nandini Pai	03 (PhD)
	Dr. Rajan Rele	04 (MSc) , 01 (PhD)
Zoology	Prof. Madhavi Indap	05 (PhD)

2014 – 2015

Subject	Name of the guide	Number of students
Botany	Dr. Vikas Golatkar (retd.)	01 (PhD)
	Dr. Mangala Heble	04 (PhD)
Chemistry	Dr. Rajan Rele	04 (MSc) , 01 (PhD)
Economics	Dr. Prakash Salvi	02 (PhD)
Zoology	Prof. Madhavi Indap	05 (PhD)

2015 – 2016

Subject	Name of the guide	Number of students
Botany	Dr. Vikas Golatkar (retd.)	01 (PhD)
	Dr. Mangala Heble (retd.)	04 (PhD)
Chemistry	Dr. Rajan Rele	02 (MSc) , 01 (PhD)
Economics	Dr. Prakash Salvi	02 (PhD)
Zoology	Prof. Madhavi Indap	05 (PhD)

3.1.6 Give details of workshops/ training programmes / sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Numerous initiatives are undertaken by the College to encourage and imbibe research culture among staff and students, a list of which is given below:

Field Visits:

- Department of Botany
 - Visit to Forest Research Institute (FRI) and FRI Botanical Garden, Dehradun in November 2011.
 - Visit to Wheat Rust Research station, Mahabaleshwar for students of MSc II in January, 2012.
- Department of Chemistry
 - Visit to BARC on 16th February 2016 and 25th October 2012.
 - Visit to Reliance Corporate Park on 15th February 2014.
 - Visit to Common Effluent Treatment Plant (CETP) on 15th February 2014.
 - Visit to Food and Drug Administration (FDA) on 4th April 2015.
 - Visit to Regional AGMARK Laboratory on 6th April 2016.

- Department of Management Studies
 - Visit to Jawaharlal Nehru Library, University of Mumbai for SYBMS students from 22nd January, 2014 to 27th January, 2014.
- Department of Physics
 - Visit to Tarapur Atomic Power Station (TAPS), Boisar for students of SYBSc and TYBSc students on 19th April 2012.
 - Visit to the Giant Meter Wave Radio Telescope - GMRT at Narayangaon, Khodad for students of SYBSc and TYBSc students on 17th January 2014.
 - Visit to Ghatghar and Uran power Stations for faculty on 5th and 6th March 2016.
- Department of Statistics
 - Visits to Dapoli Krishi Vidyapeeth and Aagom Factory of homeopathic medicines from 20th to 22nd January 2012 and from 30th January to 1st February 2011.
 - Visit to International Institute of Population Sciences and Institute of Social Sciences on 17th July 2014.
 - Visit to Therapeutic Drug Monitoring Laboratory on 3rd September 2015.
 - Educational tour to National Environmental Engineering Research Institute.
- Department of Zoology
 - Visit to Marine Biological Research Institute at Ratnagiri for students of SYBSc, TYBSc and MSc on 2nd January 2011.
 - *Open Day visit of ACTREC* at Cancer Research Centre, Kharghar every year for TYBSc students.
 - Visit to CIFE (Central Institute of Fisheries Education), Versova on 17th August 2013 for TYBSc students.

Lectures/Workshops:

- Session by Dr. Madhavi Indap, Professor Emeritus on the *Process of Preparing a Research Proposal for Funding*.
- Guidance session for teachers by Dr. Ramesh Sane on *How to Motivate Students to participate in the Avishkar Research Convention*.
- Workshop on *Research Methodology* organised by Department of Zoology.

- A session on *Neurocognitive Assessment* by Dr. Surabhi Patwardhan (Research Associate, Division of Gynecologic Oncology, St. Joseph's Hospital and Medical Center, Phoenix, Arizona) on 19th December, 2012 organised by Department of Psychology.
- A lecture on *Writing a Research project* by Mr. R. B. Wani on 20th January 2014 organised by Department of Commerce.
- Interaction with Dr. Jayasuryan, Research Scientist on *How to explore Central Research Facilities* on 19th December 2014.
- A Two-day workshop on *Research Methodology* organised by Department of Commerce on 11th and 12th February 2016.
- A lecture on *Pursuing research in Commerce* by Dr. Sithalaxmi organized by the Department of Management Studies.
- A lecture on *Research Methods with special focus on Primary data collection* by Prof. Shweta Apte on 31st March 2016 organised by Department of Management Studies.

Workshops/Seminars/Conferences:

- One day seminar on *Career opportunities after graduation*, on 15th January 2011 conducted by Departments of Botany and Zoology.
- Two day intercollegiate workshop on *Bioinformatics* for teachers 19th - 20th February 2011 organised by Department of Zoology.
- A National Workshop on *Use of Statistical Package for Social Sciences* on 4th March 2011 organised by Department of Statistics.
- The College hosted the University level Avishkar Research Convention in the year 2014-2015 and Zonal level Avishkar Research Convention in the year 2015-2016.
- State Level two-day workshop on Research Methodology was organised by department of Commerce on 11th and 12th February 2016.
- A workshop on *How to use the Library* with special reference to OPAC, INFLIBNET was organised by the Library.
- A two day workshop on *Biostatistics in teaching and research* was organised for teachers in Life Sciences by Department of Zoology on 4th and 5th September 2015.

Student Research Projects/Presentations:

- Department of Zoology – Amit Patil, Akshay Nachane, Shashank More and Prachi Salunke worked on *water and sediment analysis (Hydrology) project* as a part of Environment Impact

Assessment for Proposed Sewri-Nhava Seva Trans Harbour Sea link (MTHL) under the guidance of Dr. Madhavi Indap for duration of one month 11th December 2011- 11th January 2012.

- Department of Psychology –
 - 14 students conducted and presented papers on 5 research studies on the theme of *Old Age and Related Issue*, in a Research Convention organised by the Department of Psychology of Smt. P. N. Doshi Women's College of Arts, Ghatkopar on 3rd January 2011.
 - Under the Avishkar Research Convention, students of psychology presented five research projects in 2014 – 2015 and one research project in 2015 – 2016.
- In a special initiative for students of FYBA, students are encouraged to go to the College library, look up research journals and encyclopedias' to study a political problem. Based on this research, they make a small five minute presentation in front of the class. In the year 2010-11, 30 students participated in this initiative.
- Department of Geography- Three students of SYBA - Akshay Tarfe, Nisha Jacob and Vaidehi Bhujbal presented a research paper titled *Perspective of Society Towards Religion* at the two-day international conference titled *Geography of Change: Contemporary Issues in Development, Environment and Society* organised by K. G. Joshi College of Arts and N. G. Bedekar College of Commerce, Thane, Maharashtra (India) on 11th -12th January 2013. They received the *Young Researcher Award* and their paper was published in the Conference Volume with ISBN No. 978-81-922741-1-9.

Avishkar Research Convention:

- University-level and zonal-level Avishkar Research Convention was hosted in the College premises in 2014 and 2015 respectively.
- Orientation Lecture by Dr. Minakshi Gurav on 18th July, 2014.
- Series of lectures by Dr. Vaishali Rajurkar on *How to Conduct Research Studies* between July 2014 and March 2015.
- Dr. Nandini Diwan, the Department of Psychology, attended a meeting of the *Research Ethics Committee of Super Religare Laboratories* (SRL) and evaluated ethical aspects of research projects on 16th July 2011.

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

<i>Name of faculty</i>	<i>Area of research</i>
Dr. Tushar Desai	<i>Plasma Physics and Microcontrollers</i>
Dr. Madhavi Indap, Prof. Emeritus	<i>Marine bio-active compounds and Bio-fuels</i>
Dr. Vikas Golatkar (retd.)	<i>Mycology and Plant pathology</i>
Dr. Sudha Sawant (retd.)	<i>Plant Genetics</i>
Dr. Mangala Heble (retd.)	<i>Mycology and Plant Physiology</i>
Dr. Rajesh Jadhav	<i>Plant Physiology</i>
Dr. Rajan Rele	<i>Analytical method development for assay of drug</i> <i>Impurity profile study of drugs</i> <i>Dissolution study of drugs</i> <i>Particle size determination of drug molecules</i>
Dr. Krishnakant Waghmode	<i>Synthetic organic chemistry</i>
Dr. Kshitij Chavan	<i>Green Chemistry</i>
Dr. Jyoti Patil	<i>Coordination Chemistry</i>
Dr. Vaishali Rajurkar	<i>Coordination Chemistry</i>
Dr. Prakash Salvi	<i>Econometrics</i>
Ms. Deepali Bhide	<i>Gender Geography</i>
Dr. Rekha Gore	<i>Subaltern Studies</i>
Dr. Anagha Mandavkar	<i>Marathi Theatre</i>
Dr. Abhaya Chitre	<i>Combinatorial Mathematics</i>
Dr. Anupama Mujumdar	<i>Religion</i>
Dr. Dilip Maske	<i>Crystal growth and characterization and Thin films</i>
Dr. Mugdha Patki	<i>Biophysics, Thin films and Inter-metallics</i>
Dr. Nandini Diwan	<i>Psychology of Women, Gender Studies</i>
Dr. Neeta Tatke	<i>Sports Psychology</i>
Dr. Meenakshi Sundaresan	<i>Cytology and Toxicology</i>
Dr. Gayathri N.	<i>Marine biotechnology</i>
Dr. Minakshi Gurav	<i>Limnology and Planktonology</i>

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Eminent scientists from the Tata Institute of Fundamental Research (TIFR) deliver talks and conduct interactive sessions for our students as per the MOU signed with them. The *Chai and Why?* programme for the popularization of science is held in the College premises every month. Research students and faculty from other Institutions visit our Central Research Laboratory for knowledge-sharing.

Every year, an expert academician or researcher is invited as the chief guest for the Annual Scholars' Day of the College. They interact with the meritorious students of the College; they

inspire and become role models for students interested in pursuing research.

Furthermore, the departments invite prominent speakers for interactive discussion and idea-sharing about research in different areas.

The academic dialogue on the campus has been enriched by the presence of the following eminent academicians and researchers, who have interacted with the teachers and students:

Scientists: For the promotion of scientific attitude, the College invites leading scientists to inspire the students viz.

Padmavibhushan Prof. M.M. Sharma; Prof. Tulsi Mukherjee Former Director, Chemistry Group, BARC; Prof. Sourav Pal, Director, CSIR-National Chemical Laboratory, Pune; Prof. S.D. Samant, Institute of Chemical Technology; Prof. D. V. Prabhu, Adjunct Prof., Chemistry, Wilson College; Prof. A.V. Karnik, Head, Department of Chemistry, University of Mumbai; Prof. Brijesh Pare, Madhav Science P.G. College, Ujjain; Dr. Prabodh Chobe, Former Senior GM Development, BASF; Dr. S. Hariharan, Chairperson, Indian Chemical Council (North), JMD, Solaris Chemtech Industries Ltd.; Dr. S.R. Dharwadkar, Adjunct Prof., Chemistry, University of Mumbai; Dr. S. K. Ghosh, Head, Theoretical Chemistry Section, BARC; Dr. B.M. Bhanage, Head, Department of Chemistry, ICT; Prof. Amol Dighe, TIFR; Prof. Unnikrishnan, TIFR; Prof. Vandana Nanal, TIFR; Prof. Shashikant Duggad, TIFR; Prof. Tamizvel, TIFR; Prof. Arnab Bhattacharya, TIFR; Dr. Sanjay Wagh, Central India Research Institute.

Academicians: The presence of senior academicians motivates the students and teachers in their quest for academic excellence. Prof. M.M. Salunke, Vice-Chancellor, YCMOU; Prof. A.D. Sawant, Former Pro-Vice-Chancellor, University of Mumbai; Dr. Ramesh Sane, former Principal, Ruia College; Prof. N.V. Thakkar, Former OSD, Central University of Rajasthan, Prof. Suresh Kumar Sharma, University of Panjab, Chandigarh; Dr. Pushpadeep Mishra, IIT Mumbai; Prof. Srinath Jaganathan, TISS; Dr. Rajesh Dixit, TMH, Mumbai.

Writers and thinkers: Interaction with leading writers and thinkers fosters a spirit of critical thinking among the students. A unique feature of the College is the fact that all the Presidents of the *Marathi Sahitya Sammelan* in the last five years have visited the College to address the teachers and students viz. Vasant Dahake, Sadanand More, Uddhav Kamble, Arun Sadhu and Sheshrao More. Other writers and thinkers like Govind Pansare, Waman Hoval, and Ashok Naigaonkar have also visited the College.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Teachers are given leave for research projects and to enhance their knowledge through faculty development courses e.g. three teachers Prin. Dr. Tushar Desai, Dr. Neeta Tatke and Ms. Gayatri Gadgil were granted leave to attend one month international teacher development courses at the Aharon Ofri Training Centre for Educators at Jerusalem in Israel. Mr. Avinash Kolhe was granted leave to participate in a research tour to study the political situation in Tripura and for research work at the India-China Study Centre, New Delhi.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

The College encourages the teachers and students to present and publish their research in journals to reach out to other researchers.

A seven-day workshop on *Animal Tissue Culture* was organised by Prof. Madhavi Indap under the aegis of Central Research Laboratory which trained the students and researchers in techniques of ATC.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research?

Give details of major heads of expenditure, financial allocation and actual utilization.

The College being aided and affiliated to the University of Mumbai, there is no budgetary allocation for research and development. Equipments, books, and journals are purchased by the College as per the requirement of the researchers. The College encourages the teachers to apply for major or minor projects from the UGC, University of Mumbai and other funding agencies and the sanctioned amounts are disbursed as per guidelines.

Financial support is given to students to carry out and present research for Avishkar.

In 2015-16, the College initiated *R-Quest* scheme to proactively promote research by funding projects by non-permanent teachers and students.

For details of *R-Quest* scheme please refer to 3.1.2

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

The College has initiated the process of providing seed money for research on a modest scale. Funding for minor research projects is made available under *R-Quest* scheme. The promotion and propagation of this scheme is planned in the near future. Comprehensive support is given to researchers on need basis in the form of laboratories, materials, equipments, technical assistance and administrative support. The College also facilitates research by granting duty leave to teachers and by reimbursing registration fees for presentations at conferences and seminars.

3.2.3 What are the financial provisions made available to support student research projects by students?

The College has always encouraged student research projects by providing the laboratory, equipment and technology and materials facility free of cost to the students. This initiative was formalised in the year 2015-2016 by initiating the *R-Quest* scheme. Under this scheme, a separate budget is earmarked for funding minor research projects by teachers and students. For details of *R-Quest* scheme please refer to 3.1.2

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Prof. Madhavi Indap (Department of Zoology) and Dr. Rajan Rele (Department of Chemistry) are collaborating on a research project, the details of which are given below:

- Name of Project: *Investigation of chemical nature of bioactive compounds from the active fractions of Turbo brunneus extract and to study their mode of action in regulation of osteoclastogenesis*
 - The project is in collaboration with Advanced Center for Training Research and Education in Cancer (ACTREC). Reference no. BT/45/11563.
 - Approved by funding committee: Department of Biotechnology, Govt. of India, New Delhi. Amount sanctioned ₹ 50 Lakhs.

- Under an informal collaboration between Departments of Physics and Chemistry, the following projects are undertaken:
 - *Thin Films by Chemical Bath Deposition*
 - *Growth of Semi-organic Non-linear Crystals and characterization*
- Under the guidance of Dr. Tushar Desai, Dr. Dilip Maske (Department of Physics) and Dr. Rajan Rele and Dr. Krishnakant Waghmode (Department of Chemistry), a group of seven post-graduate students are working on a research project on *Growth of NLO Crystals*.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The departments practice collaborative access to and sharing of equipment and research facilities. Students and teachers can access the facilities in other departments with prior permission from the heads of the departments. Additionally, the Central Research Laboratory enables access to researchers in Physics, Chemistry and Life Sciences.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

The College received the First Level DST- FIST Grant of ₹. 87 lakhs for the development of Research laboratory. This grant was utilised for developing **Central Research Laboratory – Basic and Applied Research** facility in the College.

The College has received grant of ₹ 24 lakhs under the XI plan of the UGC for equipments, books, postgraduate laboratory development.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The teachers are motivated to and assisted in securing research funds from various funding agencies. The relevant information is made available through the notice boards and in the meetings conducted and the required administrative support is provided.

The details of the ongoing and completed research projects and grants are as follows:

- **Department of History:** Dr. Rekha Gore
 - Completed a minor research project titled *Socio-economic contribution of Jain*

- community in Mumbai*. The research grant of ₹ 10,000/- was received from the the University of Mumbai for the academic year 2010-2011.
- Completed a minor research project titled *Development of Metropolitan City New Mumbai (Vashi)*. The research grant of ₹ 60,000/- was received from the UGC for the academic year 2010-2012.
 - Completed a minor research project titled *The study of Satpati village in Palghar Taluka in Maharashtra*. The research grant of ₹ 20,000/- was received for the academic year 2015-2016.
 - **Department of Geography: Ms. Deepali Bhide**
 - Completed a minor research project titled *Socio-spatial study of women from the unorganised sector: A case of Mumbai city*. The research grant of ₹ 20,000/- was received from the University of Mumbai for the academic year 2011-2012.
 - **Department of Physics:**
 - Mr. Ganesh Madkaikar completed a minor research project titled *Use of Dish TV antenna for Radio Astronomy* The research grant of ₹ 35,000/- was received from the University of Mumbai for the academic year 2013-14.
 - Ms. Jayashree Chitalay completed a minor research project titled *Hysteresis Curve tracer using PC interfacing with myDAQ* The research grant of ₹ .30,000/- was received from the University of Mumbai for the academic year 2014-15.
 - **Department of Psychology: Dr. Nandini Diwan**
 - Completed a minor research project titled *Need for Social Approval, Locus of Control and Self-esteem of Female College Students*. The research grant of ₹ 14,000/- was received from the University of Mumbai for the academic year in 2009-10.
 - Completed a minor research project titled *Attitude towards and Misconceptions about Psychological Counselling*. The research grant of ₹ 30,000/- was received from the University of Mumbai for the academic year in 2013-14.
 - **Department of Marathi: Ms. Vaishali Jawalekar**
 - Completed a minor research project titled *Review of TYBA Marathi syllabus in terms of Job Opportunity*. The research grant of ₹ 50,000/- was received from the University of Mumbai for the academic year in 2013-14.
 - **Department of Zoology:**
 - Dr. Gayathri N. was invited to deliver a talk on ‘Bioactive protein extracts from octopus

salivary glands' at the World Congress of Marine Biotechnology (WCMB) 2014 at BIT Congress, Dalian. The International Travel Grant of ₹ 1,37,052 was received from the UGC for her travel to China.

- Dr. Meenakshi Sundaresan (Principal Investigator) and Dr. Gayathri N. (Co-investigator) - Ongoing minor research project titled *Biochemical profile of cadmium toxicity in Tilapia mossambica (Peters)* sanctioned by University Grant Commission in March 2015 worth ₹ 4,25,000/-
- **Department of Commerce:** Mr. Ravindra Netawate
 - Completed a minor research project titled *Customer Relationship in Mall Shopping in Navi Mumbai*. The research grant of ₹ 25,000/- was received from the University of Mumbai for the academic year 2014-2015.

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The College has recognised Research Centres for postgraduate and doctoral research in Botany, Chemistry Physics and Zoology. To actively promote interdisciplinary research, the College has established a **Central Research Laboratory – Basic and Applied Research** with DST-FIST funding of Rs. 87 lakhs. The students can actualize their research potential by access to advanced equipment and instruments in the Science laboratories e.g. Laser Lab, UV visible spectrometer, Research quality four probe (Kithely), Solar Cell-Based Demonstration Unit, High Performance Liquid Chromatography, Amscope MD 500 Microscope Camera.

The laboratory equipments are properly maintained in a working condition and are upgraded from time to time. Laboratory assistants ensure that the laboratory spaces are neat and clean. Proper safety measures are followed. The undergraduate students get exposure to the postgraduate research equipment, thereby sparking their curiosity in research. The laboratories are made accessible to the researchers even beyond the College working hours, when required. The College Library with a collection of more than 1.25 lakh books and the computer laboratories with internet are valuable resources for the researchers.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The College has identified research as one of the focal points for expansion and has continually planned, upgraded and created infrastructural facilities accordingly.

- Teachers are guided to apply for research projects by the members of Research Committee.
- Development of science laboratories has been carried out utilizing the grant of Rs. 87 lakhs received from UGC and DST-FIST.
- Laboratories are upgraded and equipments are purchased as per the requirements of the researchers.
- The College plans to apply for the Second Level of DST-FIST Grant and avail of the funding by UGC. Industrial Collaboration for the same is also planned.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.

The College has received DST-FIST grant of Rs. 87 lakhs which has been utilized for setting up a **Central Research Laboratory – Basic and Applied Research**. The instruments purchased under it are:

Acrylic incubator	Digital Thermometer	Micropipette	Water bath
Air purifier	Distriman (Micro	Microwave	Swing-out Centrifuge
BOD Incubator	pipette)	Mixer	Loop sterilizer
Centrifuge	Double Distillation	Monopan balance	Heating Block
Micro-centrifuge	assembly	Optical microscope	Multi parameter
Multi spin centrifuge	Double stage rocker	Oven	Compound Microscope
Plate Centrifuge	Electric hot plate	pH meter	Thermal cycler
Refrigerated centrifuge	Electronic Balance	Pipettman (Micro	Gel documentation
Dissecting Microscope	Electrophoresis	pipette)	CO2 Incubator
Imaging Microscope	apparatus	Pump	Biosafety Cabinet
Inverted microscope	Elisa Plate Reader	Rocker	Cryo-can
Stereomicroscope	Filtration assembly	Thermostatic	Spectrophotometer
Deep freezer (-20°C)	Hand Mixer	magnetic stirrer	(UV visible range)
Fridge	Homogenizer	Two pan Balance	Micro pipette
CO ₂ incubator	Incubator	UV lamp	Vertical
Colorimeter	Incubator shaker	Vacuum pump	electrophoresis
Computer	Laminar flow	Vacuum Cleaner	assembly
Printer	Lux-meter	Vortex shaker	Air curtain
Deionizer	Magnetic stirrer		

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

Our students and research scholars from Life Sciences make use of additional facilities of other research institutes whenever required. They are making use of facilities from Advanced Centre (ACTREC), Haffkine, National Centre for Cell Science (NCCS), Therapeutic Drug Monitoring (TDM), Jaslok hospital, National Facility for BioPharmaceuticals (NFB), Anchrom, IEM, Badische Anilin and Sodafabrik (BASF) and LabIndia.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

The researchers can avail of the Library which offers:

- access to 1,30,000 books and 130 periodicals
- access to INFLIBNET – N-LIST for staff and students
- separate seating section for research scholars
- e-mails of content pages of journals regularly sent to the departments

Furthermore, the researchers can use the departmental computers with internet for accessing e-resources.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college for ex. Laboratories, library, instruments, computers, new technology etc.

The College has created Central Research Facility for collaborative research in science. The College has a large number of instruments, both classic and sophisticated, for research, the detailed list of which is given in 4.1.2 (b).

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of Research inputs contributing to new initiatives and social development:

Department of Geography

- Ms. Deepali Bhide presented a paper titled *A house wife's right to the Personal Space* at the UGC Sponsored *Two Days National Conference on Women's Quest for Equality in India- Promises, Problems and Prospects* organised by the Women Development Cell of K. G. Joshi and N. G. Bedekar College, Thane, Maharashtra (India) from 9th and 10th January, 2015. This paper was published in the Conference Volume with ISBN: 978-81-922741-4-0.

- Akshay Tarfe, Nisha Jacob and Vaidehi Bhujbal (students of SYBA Geography) presented a paper titled *Perspective of Society Towards Religion* presented at the two-day international conference held on 11th and 12th January, 2013 titled *Geography of Change: Contemporary Issues in Development, Environment and Society* organised by K. G. Joshi College of Arts and N. G. Bedekar College of Commerce, Thane, Maharashtra (India). The paper was published in the Conference Volume with ISBN No. 978-81-922741-1-9.

Department of Philosophy

- Ms. Anupama Mujumdar presented a paper titled *Spirituality – The need of the hour* presented at a conference titled *Women's Quest for Equality in India: Promises, Problems and Prospects* at K. G. Joshi College of Arts and N. G. Bedekar College of Commerce, 9th – 10th January 2015.

Department of Zoology

- Dr. Meenakshi Sundaresan presented a paper titled *Effect of Cadmium Chloride on the gill of Tilapia Mossambica (Peters)* presented in the International Conference – *Emerging Trends and Challenges in Science and Technology* organised by Bionano Frontiers and International Society of Technology in association with Sinsil International Limited on 3-4 November 2014 at Bangkok, Thailand.
- Mr. Nitin Wasnik presented a paper titled *FTIR and Raman Spectroscopy – a non-destructive approach to study biomineralisation in Nerita oryzarum (Recluz, 1841)* at the National Conference Emerging Trends in Sustainable Development organised by the Department of Zoology, Kirti College on 23-24 January 2015.
- Dr. Gayathri N. delivered an oral presentation titled *Generation of Electricity from sugarcane and bagasse* in the UGC-sponsored National Conference on Recent Advances in Environmental Sciences organised by Dr. P.R. Ghorey Science College, Dhule.

Department of Physics

- Dr. Dilip Maske presented a poster titled *Compositional Analysis of detached InSb:Bi bulk semiconductor crystal grown by VDS technique* presented at 20th National Seminar on Crystal Growth and Applications organised by BARC, MRSI and IACG from 19th to 21st January 2016.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

The College does not publish or partner in publication of research journals; however the College plans to publish an interdisciplinary research journal. The proceedings of the National Conference CONCHEM 2014 organised by the College have been published.

The copies of research papers presented and published by the teachers have been compiled for reference. Copies of doctoral theses by teachers have been kept in the Library for access by teachers and students.

3.4.3 Give details of publications by the faculty and students

Summary of publications

Type of publication	2010 2011	2011 2012	2012 2013	2013 2014	2014 2015	2015 2016	Total
Papers in International Journals (Peer Reviewed)	19	13	15	22	46	35	150
Papers in National Journals (Peer Reviewed)	02	02	03	01	02	06	16
Papers in National Journal (Non-Peer Reviewed)	-	02	-	01	02	04	09
Books with ISBN number	01	01	01	01	01	01	06
Books without ISBN number	04	01	01	01	02	-	09
Chapters in Books / Articles	01	-	-	03	05	-	09
Papers in Conference Proceedings (International)	03	04	03	04	03	05	22
Papers in Conference Proceedings (National)	02	04	09	13	12	03	43
Papers presented in National Conference	01	05	15	15	16	20	72
Papers presented in International Conference	06	04	03	04	03	13	33
Abstracts published in International Conference proceedings	-	-	-	-	03	05	08
Abstract published in National Conference proceedings	-	-	-	-	02	03	05

Number of papers published by faculty and students in peer reviewed journals (national / international)

Summary of Indexed Journals

SCOPUS	Google Scholar	Research Gate	EBSCO	Others
68	15	22	03	20

Summary of Impact Factor

Impact Factor	Number of Journals
0 – 1	60
1 – 2	04
2 – 3	02
3 – 4	04
4 – 5	01
5 and above	----

3.4.4 Provide details (if any) Research awards received by the faculty

Department of Geography

- Ms. Deepali Bhide received the Best Research Paper Award for her paper presentation on *A house wife's right to the Personal Space* at the UGC Sponsored *Two Days National Conference on Women's Quest for Equality in India- Promises, Problems and Prospects* organised by the Women Development Cell of K. G. Joshi and N. G. Bedekar College, Thane, Maharashtra (India) from 9th and 10th January, 2015. This paper was published in the Conference Volume with ISBN: 978-81-922741-4-0.

Department of Philosophy

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Department of Physics

- Dr. Dilip Maske won the Best Poster Presentation Award for the poster titled *Compositional Analysis of detached InSb:Bi bulk semiconductor crystal grown by VDS technique* presented at 20th National Seminar on Crystal Growth and Applications organised by BARC, MRSI and IACG from 19th to 21st January 2016.

Department of Zoology

- Dr. Meenakshi Sundaresan won Best Oral Presentation Award for the paper *Effect of Cadmium Chloride on the gill of Tilapia mossambica (Peters)* presented in the International Conference – Emerging Trends and Challenges in Science and Technology organised by Bionano Frontiers and International Society of Technology in association with Sinsil International Limited on 3rd and 4th November 2014 at Bangkok, Thailand.

- Mr. Nitin Wasnik won Consolation Prize for Best Poster Presentation for the paper titled *FTIR and Raman Spectroscopy – a non-destructive approach to study biomineralisation in Nerita oryzae (Recluz, 1841)* at the National Conference Emerging Trends in Sustainable Development organised by the Department of Zoology, Kirti College on 23-24 January 2015.
- Dr. Gayathri N. won First Prize for Oral Presentation on *Generation of Electricity from sugarcane and bagasse* in the UGC-sponsored National Conference on Recent Advances in Environmental Sciences organised by Dr. P. R. Ghorey Science College, Dhule.

Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally

- Dr. Tushar Desai
 - Recognised as a member co-ordinator / member of NAAC Peer Team.
 - Invited as Peer Team Convenor for pre-NAAC visit to Tribal University.
 - Member, Board of Studies in Applied Sciences at Amity University since 2016.
 - Academic Council Member and Chairperson of ad-hoc Board of Studies, Information Technology at University of Mumbai from 2010 – 2015.
 - Academic Council Member and Chairperson of Board of Studies, Computer Science and Information Technology at Maharashtra State Board of Higher Secondary Education from 2006-2011.
 - Received the **Best Teacher Award** by the Government of Maharashtra for the year 2008-2009.
- Dr. Nandini Pai, former Head, Department of Chemistry was honored with the **Best Teacher Award** by the Government of Maharashtra for the year 2009-2010.
- Dr. Nandini Diwan was awarded the **Smt. Savitribai Phule Adarsha Shikshika Puraskar** of the University of Mumbai for 2010-2011.
- Dr. Vikas Golatkar, Head, Department of Botany was awarded **Best Teacher Award** by University of Mumbai in 2012.
- Dr. Madhavi Indap
 - was conferred the fellowship of **Professor Emeritus** by UGC in 2011.
 - is a Reviewer on the panel of National Institute of Science Communication and Information Resources (NISCAIR), CSIR, New Delhi as a subject referee to review research papers and

articles in Indian Journal of Experimental Biology (IJEB) and Indian Journal of Marine Sciences (IJMS)

- Ms. Neeta Tatke received a special recognition Letter and Trophy from Yoga Forum, Munich, Germany for her consistent contribution in propogation of Indian Traditional Physical Culture, Mallakhamb in Munich, September 2013.
- Dr. Neeta Tatke was awarded **Hirkani Puraskar** by *DD Sahyadri* for the contribution in the field of Mallakhamb in 2015.
- Dr. Pradip Karnik, Librarian
 - was appointed as Director of Marathi Research Institute in 2015 – 2016.
 - was appointed as Member of Marathi Vishwakosh Nirmittee Mandal, Government of Maharashtra
- Mr. Avinash Kolhe
 - was assigned to translate a book on Gadar Movement into Marathi by National Book Trust of India.
 - was assigned to write the biography of social reformer R.D. Karve by Sahitya Akademi.
 - invited as a member of the study team to analyse the socio-political scenario in Tripura by Rambhau Mhalgi Prabodhini.
 - invited to edit the calendar on Dr. Babasaheb Ambedkar sponsored by Government of Maharashtra from 2010 – 2014.
 - is visiting Associate Fellow at the Institute of Chinese Studies, New Delhi.

3.5 Consultancy

- Ms. Vaishali Jawlekar for the examination conducted by Bhaashaa-Sanchaalanaalaya, Govt. of Maharashtra, since 2004.
- Dr. Mangala Heble (retd.) to Dr. Shruti Sawant of Bhavan's College, Andheri, Department of Microbiology in identification of soil fungi for her minor Research Project.
- Dr. Madhavi Indap
 - Terracon Ecotech Pvt Ltd. on Environemtn Impact Assessment (EIA) for MTHL, Mumbai Trans harbor link, Dec 2011- Jan 2012
 - Terracon Ecotech Pvt Ltd. on Environment Impact Assessment (EIA) on marine water analysis (chemical and biological) for JNW shipyard project at Dabhol, Vashishthi estuary, May- June 2010.

- Dr. Debatosh Dutta, Green Care Pvt Ltd., for testing of compounds for angiogenic activity, March – April 2010.
- Fine Envirotech Engineers on Environmental Impact Assessment (EIA) on Marine Environment for the project 2000 MW gas based power plant (at Dronagirii, NMSEZ Maharashtra, May 2007.
- Fine Envirotech Engineers on Environmental Impact Assessment (EIA) on Marine Environment for the project Mithapur for water analysis and biodiversity studies. 1997
- Market analysis for textbook and trade book publishers
- Reviewer for sanctioning project proposals for Department of Biotechnology, Govt. of India, New Delhi.

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The departments identify the potential areas for industry-institute interface and initiates programmes or events for students. Students gain exposure to the industry through the Placement Cell activities and interaction with alumni who are professionals. *Careers after TYBA* organised under the aegis of Open Forum and industrial visits are also helpful in this regard.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The College encourages teachers to appropriately harness their expertise through consultancy. The expertise of the faculty is informally publicised through parent-teacher interaction, alumni meetings, General Body meetings and publications by the faculty.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The College gives independent scope to the teachers to utilize their expertise for consultancy services. They are permitted to use the College infrastructure and facilities if required.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years

As per the current policy of the College, most of the consultancy is undertaken on a non-remunerative basis. The revenue generated through consultancy, if any, is ploughed back into research activities. A revenue-sharing system for funds generated through consultancy is under

active consideration.

- Dr. Madhavi Indap

Project	Company	Revenue generated (in Rs.)
Environment Impact Assessment (EIA)	JSW Steel Pvt. Ltd.	3,07,000/-
Environment Impact Assessment (EIA)	Terracon Pvt. Ltd. Ecotech	15,750/-
Environment Impact Assessment (EIA)	JSW Steel Pvt. Ltd.	54,000/-

- Ms. Vaishali Jawlekar - Marathi language
- Dr. Mangala Heble (retd.) - Mycology and plant pathology
- Dr. Meenakshi Sundaresan - Biodiversity
- Dr. Neeta Tatke - Sports Psychology

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

Most of the teachers undertake consultancy on non-remunerative basis. The remuneration, if any, is retained by the teacher. In future, if the College generates substantial revenue through consultancy it will be utilised to support research activities in the College.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The College proactively promotes social service and good citizenship values through its various outreach programmes. The activities of the NSS, NCC and DLLE units inculcate a sense of social responsibility among the students and also provide them an insight into real world problems and issues.

The NSS unit has been successfully conducting *Umed* – a talent showcase for senior citizens. This initiative is very popular among local residents and has given the senior citizens a sense of self-esteem and belonging to the community.

Some other programmes undertaken are:

- Blood donation camps
- Health awareness campaigns in the surrounding areas – educating people about prevention

of polio, AIDS, dengue, malaria and so on.

- Adoption of a tribal village at Karav, Vangani wherein medical camps, cleanliness projects, games and activities for village children are conducted.
- Assisting Mumbai Police in regulating crowds at the time of Ganapati immersion.
- Undertaking education projects in neighbouring Municipal Corporation schools.
- Tree plantation in the College campus and surrounding areas.
- Selling rakhi for assisting mentally challenged children
- Participating in cleaning the Shivaji Park Chowpatty after the Ganapati Immersion
- Gender sensitisation workshops, skits and talks
- Entrepreneurship project by DLLE unit
- Survey of women's status by DLLE unit
- Career Awareness
- Health and educational camps for students of the Ashram School at Karav, Vangani, a tribal village adopted by the NSS unit.

Apart from this, the College makes its lawn available to senior citizens from the neighbourhood for morning and evening walks free of cost.

3.6.2 What is the Institutional mechanism to tracks students' involvement in various social movements / activities which promote citizenship roles?

The College ensures students' involvement in various social movements/activities which promote citizenship roles through the following mechanisms:

- Enrolment of volunteers for NSS, NCC and DLLE Units.
- Motivating students to participate in college and university level projects.
- Awarding certificates of appreciation for Best NCC and NSS cadets.
- Publicising the social involvement of the students through the college website and reports in the College magazine *Imprints*.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The College gives great importance to feedback from stakeholders and considers it as a valuable input for quality improvement. Feedback is obtained from students about teachers through an annual survey, the suggestions from parents, alumni and other stakeholders are obtained through formal and informal meetings.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The extension and outreach programmes are planned by the teachers in-charge after consultation with the Management. The NCC, NSS and DLLE programmes are funded by the University of Mumbai, however, the College grants additional funds to these units if required. The extension activities conducted by departmental associations are funded by the College. The various associations organise skits, institutional visits in order to sensitise students towards the contemporary social issues.

Expenditure for NSS for the last four years:

Year	Amount spent (in Rs.)
2012-2013	32,600/-
2013-2014	38,600/-
2014-2015	25,000/-
2015-2016	35,000/-

Participation in extension and outreach programmes enables the students to develop confidence and acquire team-building and leadership skills. A list of the activities of NCC, NSS and DLLE Unit has been given in 3.6.1

In addition to these activities, the Department of Physics regularly contributes to the popularisation of science for school children. Every year, talks, exhibitions and film screenings are conducted for students of neighbouring schools during the VIBGYOR festival. The unique concept of setting up a mobile planetarium in the campus was implemented for two years, 2013 and 2015 and it attracted an overwhelming response from students.

TIFR conducts the *Chai and Why* programme for science outreach in the College campus on the third Sunday of every month. Leading scientists including visiting scientists from abroad interact with the students. These programmes have generated interest in science among the students and helped in development scientific temper.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The students and teachers are given full encouragement and necessary support to participate in

NSS, NCC, and other national/ international agencies by:

- Orientation sessions and enrolment drives conducted by NCC, NSS and DLLE units.
- Departments motivate the students to participate in community-oriented activities.
- Record of extension activities and achievements through the college website, the college prospectus and the college magazine *Imprints*.
- Skits, songs prepared for community engagement are also performed in the college on important occasions like Independence Day, Republic Day and Annual College Days.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

All the activities of the extension units are focused on generating awareness about social issues and empowering disadvantaged groups. Some of the initiatives undertaken are:

- Survey of women's status by students of DLLE Unit.
- Gender Sensitisation Workshops in association with MAVA (Men Against Violence and Abuse).
- Institutional visits to homes for the visually impaired and for mentally challenged children.
- Selling rakhis for the benefit of mentally challenged children.
- Performance of skits about prevention of malaria, AIDS awareness and preventing sexual abuse of women.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

In keeping with the Mission of the College to ensure multidimensional personality development and to create good citizens, the students participate in activities beyond the syllabi that broaden their perspective and make them aware of real life issues around them. They develop self-confidence, learn to interact with people from various strata of society and acquire values like sensitivity and responsibility towards disadvantaged groups, providing educational facilities and development in remote areas, issues of social health, care for the elderly, blood donation and environmental issues of current interest.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The College ensures the involvement of the community in its various outreach activities, the most effective and popular initiative being *Umed* – the senior citizens’ talent showcase. Apart from this, schools in the neighbourhood are benefited by the popularisation of science programmes and other programmes carried out by students and teachers of the College. The Science Outreach programme for school children has been arranged for students of the School at Saphale, Dnyanprabodhini Vidyalaya, Saraswati Mandir and Balmohan Vidyamandir.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

- *Umed* - Talent showcase for senior citizens in the neighbourhood.
- Collaboration with the traffic police by NCC and NSS students during Ganesh Visarjan
- Stree Mukti Sanghatana –Collaboration for setting up vermi-composting project in the campus.
- Various activities like cleanliness drive and educational games for children in the tribal village adopted by the NSS unit at Karav, Vangani.
- St. George Hospital– for organising annual blood donation and thalassemia detection camps
- Neighbourhood schools –educational project conducted by the NSS Unit
- Gender sensitisation programmes in association with MAVA – Men Against Violence and Abuse.
- Nehru Science Centre for volunteer work under Industry Orientation Programme.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Prizes won by the NSS Unit

2010-2011

Anubhuti - Best College Award

Other prizes:

Event	Prize	Venue
Leadership Training Camp	Best Volunteer	Swanad Yog Dham Ashram, Badlapur
MDACS Singing Competition	First and Second	Sewri
Group Dance	First	Ramnarain Ruia College
Essay Writing Competition	First	
Rangoli	First	
Best Of Waste	Second	
Street Play	Second	
Group Singing	Second	
District Level Poetry Writing	Third	

2013-2014

Anubhuti-Best College Trophy

Event	Prize	Venue
Debate Competition	First	Ramnarain Ruia College
Kurta Painting	First	
Cariacature	Third	
Poetry Writing	First	K.C. College

2014-2015

Event	Prize	Venue
Leadership Training Camp,	Best Leader	Swanad Yog Dham Ashram, Badlapur
Swatcha Bharat Abhiyan	Best Social Project	M.D. College Festival

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The teachers of the College collaborate and interact with various institutions in the course of their research work. The major collaborations are listed below:

- Department of Physics – TIFR Mumbai, Nowrosji Wadia College (Pune)
- Dr. Madhavi Indap
 - Dept. of Chemical Engineering, University Institute of Chemical Technology, Mumbai.
 - Dept. of Molecular Biology, Mainz University, Mainz, Germany.
 - Medical College of Wisconsin, USA.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution

MOUs have been signed with

- Tata Institute of Fundamental Research (TIFR), wherein eminent scientists from the Institute deliver talks and conduct interactive sessions. The *Chai and Why* programme for the popularization of science is held in the College every month.
- IIT Bombay for promotion of Open Source Software.

These collaborations give teachers and students insight into the latest trends in academics and the industry and provide them an opportunity to interact with leading experts and to obtain hands-on training in the subject.

To foster academic and cultural exchange with Israel, the College has an informal alliance with the Israel Consulate in Mumbai. As part of this association, the following activities and events were organised:

- Ms. Orna Sagiv, Consul General of Israel in Mumbai made a presentation on *Technological Developments in Israel* in the College on 28th July 2012.
- Dr. Inbal Kvitty delivered a talk on the *Holocaust* after a screening of a film about the holocaust on 11th November 2013.
- A seminar on *Education Opportunities in Israel* was held in the College with the help of the Israel Consulate in Mumbai on 9th December, 2014. Delegates from the top five universities in Israel interacted with the students. The names of the experts are as follows: Prof. Oron Shagrir, Vice Rector, Hebrew University of Jerusalem; Ms. Dalit Parsser, Marketing Director, Tel Aviv University; Ms. Giselle Rotman; International Officer,

Technion Institute; Dr. Eric Zimmerman, Director of Research and Global Engagement ; Ms. Einat Noy Administrative Director, Ben Gurion University.

- An art exhibition titled *Wings of Shakti* featuring works by Israeli and Indian women artists was held in the College from 26th to 28th February 2014. Mr. Jonathan Miller, Consul General of Israel in Mumbai inaugurated the exhibition.
- Three senior teachers from the College were selected to attend capacity-building programmes at the Aharon Ofri International Training Centre for Educators and the International School for Holocaust Studies, Yad Vashem at Jerusalem, Israel.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

The College has effectively leveraged its ties with alumni, industry and other institutions to upgrade the academic and infrastructure facilities. MOUs with TIFR and IIT Bombay, UGC, DST-FIST funding for the Central Research Laboratory, donations from alumni for campus development and renovation are the prominent examples.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Department of Chemistry had organised a UGC sponsored National Conference with the central theme *Societal Impact of Chemistry: Vision 2020* on 12th and 13th September 2014.

Various eminent scientists, academicians, authors and experts have visited the College during the CONCHEM 2014. The list of such visiting experts is given below:

Padmavibhushan Prof. M.M. Sharma

Prof. M.M. Salunke, Vice-Chancellor, YCMOU

Prof. A.D. Sawant, Former Pro-Vice Chancellor, University of Mumbai

Prof. Prabuddha Ganguly (MHRDIPR- Chair Professor at Tezpur University Assam, CEO, VISION-IPR, Mumbai)

Prof. Tulsi Mukherjee Former Director, Chemistry Group, BARC

Prof. Sourav Pal, Director, CSIR-National Chemical Laboratory, Pune

Prof. S.D. Samant, Institute of Chemical Technology

Prof. D. V. Prabhu, Adjunct Prof., Chemistry, Wilson College

Prof. N.V. Thakkar, Former OSD, Central University of Rajasthan
 Prof. A.V. Karnik, Head, Department of Chemistry, University of Mumbai
 Prof. Brijesh Pare, Madhav Science P.G. College, Ujjain
 Dr. Prabodh Chobe, Former Senior GM Development, BASF
 Dr. S. Hariharan, Chairperson, Indian Chemical Council (North), JMD, Solaris Chemtech Industries Ltd.
 Dr. Sanjay Wagh, Central India Research Institute
 Dr. S.R. Dharwadkar, Adjunct Prof., Chemistry, University of Mumbai
 Dr. S. K. Ghosh, Head, Theoretical Chemistry Section, BARC and
 Dr. B.M. Bhanage, Head, Department of Chemistry, ICT.

Furthermore, a number of scientists have visited the College and interacted with the students and teachers viz. Padmashree Dr. D. B. Phatak IITB; Prof. Amol Dighe, Prof. Unnikrishnan, Prof. Vandana Nanal, Prof. Shashikant Duggad, Prof. Tamizvel, and Prof. Arnab Bhattacharya, from TIFR; Dr. Ramesh Sane, former Principal, Ruia College; Ms. Orna Sagiv, Consul General, Israel; Prof. Sanjay Deshmukh, Vice-Chancellor, University of Mumbai; Dr. Narendra Jadhav; Dr. Avinash Supe.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

The College has linkages and collaborations with various institutions like TIFR and IIT, Bombay which have resulted in fruitful academic exchange.

- a. **Curriculum development/enrichment:** Some teachers are Members of Board of Studies and Members of Syllabus Committees at the University of Mumbai and they thus contribute to the curriculum development of their subjects.
- b. **Internship/On-the- job training:** Although internship is not mandatory as per the syllabi of the University, many students from Management Studies opt for internships and summer placements during their vacation period.
- c. **Summer placement:** as mentioned above
- d. **Faculty exchange and professional development:** Teachers attend different professional development programmes to enhance their knowledge. Three senior teachers were selected to attend international teacher training programmes at the Aharon Ofri International Training Centre, Jerusalem, Israel under the aegis of MASHAV, Israel's Agency for International

Development.

- Principal Dr. Tushar Desai - International course on *Education for Science and Technology and ICT in Education*
- Ms. Neeta Tatke – International course on *Educational Methodologies Youth At-Risk: Preventing Student Dropouts and Facilitating Reintegration*
- Ms. Gayatri Gadgil –
 - International course on *Innovation and Entrepreneurship in Education*
 - Course on *Holocaust Education for Indian Educators* at The Yad Vashem School of Holocaust Education, Israel.
- e. **Research:** Our students and research scholars from Life Sciences make use of additional facilities of other research institutes whenever required e.g. Advanced Centre (ACTREC), Haffkine, National Centre for Cell Science (NCCS), Therapeutic Drug Monitoring (TDM), Jaslok Hospital, National Facility for BioPharmaceuticals (NFB), Anchrom, IITEM, Badische Anilin- and Sodafabrik (BASF) and LabIndia.
- f. **Consultancy:** The teachers productively utilize their expertise by offering consultancy to various organizations. Please refer to 3.4.4 for details.
- g. **Extension:** Community service activities are carried out in collaboration with various NGOs like MAVA (Men Against Violence and Abuse), St. George Hospital and organizations working with senior citizens.
- h. **Publication:** The teachers have contributed research papers to various national and international journals. For details please refer to 3.4.2.
- i. **Student Placement:** The Placement Cell collaborates with various companies to organise campus interviews for students. For details please refer to 5.1.9.
- j. **Twinning programmes:** Nil
- k. **Introduction of new courses:** The MCom course was introduced in 2014-2015.
- l. **Student exchange:** Nil

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

The College regularly invites experts from leading academic and professional institutions, thereby creating opportunities for potential linkages and collaborations.

Infrastructure and Learning Resources

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The College makes consistent efforts to provide a healthy and conducive learning environment by providing proper infrastructure. The focus is multifaceted; combining the core teaching infrastructure like classrooms with technology and space for extra-curricular activities. The facilities are regularly monitored and upgraded as per the requirement.

The infrastructural facilities were developed, keeping in mind the following factors

- Eco-friendly initiatives
- Use of ICT
- Research facilities – more laboratories were added for interdisciplinary research
- Safe and learner-friendly environment
- Efficient administration and office documentation

The major facilities that were developed during the last five years are:

- The New Building, located at the Ruby Mill gate of the campus became functional in 2011. Four floors with carpet area of approximately 40,000 sq. feet are in use by Departments of Information Technology, Computer Science, and Management Studies. The spacious Library along with reading rooms is located on the ground floor of the New Building.
- A fully-equipped, air conditioned multipurpose hall, with the capacity of 700 is located on the first floor of the New Building.
- A fully-equipped seminar room with a capacity of 60 is located on the third floor.
- A new record room was set up on the second floor of the New Building for storing important documents.
- *Central Research Laboratory – Basic and Applied Research* was established in 2012-2013 to provide a centralised facility for research in Physics, Chemistry, Botany and Zoology. Teachers, doctoral, postgraduate and undergraduate students of the College use the facilities provided by the laboratory. Students from departments of other colleges are permitted to visit the research centre and also to use the facilities.

- IT and computer science laboratories were added. The details about the number of laboratories and computers are given in 4.3.1.
- Separate departmental rooms were allocated for Arts and Commerce departments as per the suggestions of the previous NAAC Peer Team.
- Separate rooms were allotted for IQAC in New Building, Women's Development Cell and DLLE Unit in Science Building.
- Department of Psychology was renovated from funds of ₹. 5,80,250/- donated by their alumni and faculty members.
- The UGC Network Resource Centre has been upgraded to a multimedia centre equipped with a high-resolution scanner, digitizer, video camera, video signal processing cards and mp3 recorder.
- A separate computer laboratory in the Library is used for conduct of examinations, taking feedback and conducting training sessions for teachers and students.
- To maintain a safe environment for students and staff, major areas of the campus are under CCTV surveillance 24x7.
- Students can avail of photocopy and stationery centre on the campus.
- The seminar hall in the Science Building, (2 Sc.) was renovated and newly furnished in the year 2011. It holds a capacity of 100 and is regularly used for talks, meetings, workshops and other activities of the College.
- College Office and Examination Department have been renovated and restructured for more efficient functioning.
- An extension office wing was created for the Scholarship section and the University-related examination work.
- The Centralised Assessment Programme centre was shifted to the spacious hall on the third floor, above the Bank of Maharashtra building to accommodate more examiners.
- The sports grounds and green campus were developed and maintained with the help of the rainwater harvesting project.
- Keeping in mind the green initiative, solar panels have been installed, which provide electricity to the Physics laboratories and Notice Boards in the Science Building. A solar-powered mobile phone re-charging point has been created in the faculty common room, for the recharging of cell phones.
- The tube-lights are being replaced by LED lights.

- In 2013, using pre-used paver blocks, which had been discarded by the Municipal Corporation during the renovation of footpaths, an open air amphitheatre *Rupangan* and activity area *Saawli* were created. Students and teachers use these spaces for studies, meetings, open air lectures, and cultural activity rehearsals and so on.
- In addition to the existing canteen infrastructure, open-air canteen facility was created using pre-used paver blocks.
- The number of sparrow shelters installed in the campus was increased. Bird feeders were installed. A variety of flowering plants and trees were planted to attract butterflies.
- The shooting range in the Gymkhana was modernized in 2013.
- NCC Boys Unit was relocated to the Hostel area and NCC Girls Unit was relocated to Girls' Common Room.
- The approach road to the College from the Ruby Mill gate has been redeveloped.
- A sanitary napkin vending machine and disposal machine has been installed in the Girls' Common Room.

4.1.2 Details of the facilities available for

a. Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialised facilities and equipment for teaching, learning and research etc.

b. Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

a. Curricular and co-curricular activities -

- There are a total of 54 well-maintained class rooms in Arts, Science, Annex and New Buildings. Lectures and tutorials are carried out in the classrooms according to the time-table.
- There are a total of 8 IT laboratories equipped with the latest configuration of computers and internet connection with LAN facility.
- The UGC Network Resource Centre allows the staff and students to access ICT tools like a high-resolution scanner, digitizer, video camera, video signal processing cards and mp3 recorder.
- The multipurpose hall and the two seminar halls are used to conduct academic and other

programmes of the College. All the halls are fully-equipped with projector, laptop and audio-video system.

- The information regarding laboratories is as follows:

Department	Class / Level	Facility
Physics	UG	One Dark room One computer laboratory with 08 computers
	UG	FYBSc laboratory SYBSc laboratory TYBSc laboratory
	PG	One Dark room MSc laboratory
Chemistry	UG	Balance room Preparation room FYBSc laboratory SYBSc and TYBSc laboratory Physical and Analytical laboratory
		MSc laboratory
		Research laboratory
		Research laboratory
IT and CS	UG / PG	131 latest computers with internet connection, hardware, 50 computers
Management Studies	UG	23 latest computers with internet connection
Zoology	UG	FYBSc, SYBSc and TYBSc laboratory
	PG	MSc laboratory
Botany	UG	FYBSc, SYBSc and TYBSc laboratory
	PG	MSc laboratory
Psychology	UG	TYBA laboratory with 4 Computers
Commerce	UG / PG	Display in the corridor of Science Building
Statistics	UG	Laboratory

Equipment for teaching, learning and research:

A list of the major equipments of the Science departments is as follows:

Department of Physics

- Geiger Muller Counter
- LASER lab
- Microwave demonstration kit
- Milligram single pan balance
- LCR – Q meter
- Muffle Furnace with PID temperature controller
- Digital Storage Oscilloscope
- UV- visible spectrometer
- Vacuum System- 10^{-6} mb, box coater BC 300 (CVD, EBE)
- Research Quality Four Probe (Kithely)
- Metallurgical Microscope (100x)
- Solar Cell Based Demonstration Unit Abbe Refractometer
- Thin film setup using chemical bath deposition
- Thin film setup using electron beam deposition
- Michelson Interferrometer
- Constant Deviation Spectrometer
- Hall Effect with Four Probe Method
- LG Plate
- Fabry Perot Etalon
- Hall Effect with Constant Temperature Bath
- Zeemann Effect Apparatus
- Millikan Oil Drop Apparatus

- Susceptibility Quincke Method
- Optical Benches
- Ballistic Galvanometers
- Wave Propagation demonstration Kit
- Concave Grating
- Polarimeter
- Crooke's Radiometer
- Chladni Plate
- Tesla Coil
- Periscope model
- Heat Engine model
- Ultraviolet Lamp
- Ultrasonic refractometer

Central Research Laboratory

- Acrylic incubator
- Air Conditioner (3)
- Air purifier
- BOD Incubator
- Centrifuge
- Microcentrifuge
- Multi spin centrifuge
- Plate Centrifuge
- Refrigerated centrifuge (2)
- Dissecting Microscope (2)
- Imaging Microscope
- Inverted microscope
- Stereomicroscope
- Deep freezer (-20°C)
- Fridge (2)
- CO₂ incubator
- Colorimeter (2)
- Computer (Desktop)
- Printer
- Deionizer
- Digital Thermometer
- Distriman (Micro pipette)
- Double Distillation assembly
- Double stage rocker
- Electric hot plate
- Electronic Balance
- Electrophoresis apparatus
- Elisa Plate Reader
- Filtration assembly (2)
- Hand Mixer
- Homogenizer
- Incubator
- Incubator shaker
- Laminar flow
- Lux-meter
- Magnetic stirrer
- Micropipette
- Microwave
- Mixer
- Monopan balance
- Optical microscope (2)
- Oven
- pH meter (2)
- Pipettman (Micro pipette)
- Pump (2)
- Rocker
- Thermostatic magnetic stirrer
- Two pan Balance
- UV lamp
- Vacuum pump
- Vacuum Cleaner
- Vortex shaker
- Water bath (2)
- Swing-out Centrifuge
- Loop sterilizer
- Heating Block

- Autoclave
- Oven
- Multi parameter
- Compound Microscope
- Thermal cycler
- Gel documentation
- CO₂ Incubator
- Biosafety Cabinet
- Cryo-can

- Spectrophotometer (UV
- visible range)
- Micro pipette (0.5 -10 ul and 20
- to 200 ul)
- Electrophoresis powerpack
- Vertical electrophoresis
- Assembly
- Air curtain

Department of Chemistry

- High Performance liquid Chromatography
- Dissolution Test Analyzer
- UV visible photo spectrometer
- Auto titrator
- Millipore water Purifier

- Electronic Balance with 0.01 mg capacity
- Karl Fischer Titrator
- Ultrasonic heater

Department of Zoology

- Inverted microscope
- Deep freezer (-20°C)
- CO₂ incubator
- BOD Incubator
- ELISA Plate centrifuge
- Binocular microscope with digital imaging software

- ELISA microplate reader
- Refrigerated centrifuge
- Cooling centrifuge
- Laminar air flow (vertical cabinet)
- Vertical Gel Electrophoresis

Department of Botany

- SLR Camera
- Laminar-flow
- Spectrophotometer UV and visible light
- Flame photometer
- Electrophoresis Unit (horizontal and vertical)
- High Speed Centrifuge (for Eppendorff tubes)

Department of Information Technology and Computer Science

- Server Configuration - Intel Xenon Hexa Core Processor Server, 2 Intel Xenon Hexa Core Processor 32 Gb, 5.4 Tb RAID HDD , Virtualized Environment
(Please refer to the annexure-8 for details)

Botanical garden

The College has a Botanical garden. The campus has about 450 trees, herbs and shrubs.

B) Extra-curricular activities:

The College has a separate, well-equipped Gymkhana Building and two big sports grounds, with an area of approx. 27,000 sq.ft, with facilities for various sports as under:

Game/Sport	No. of grounds / tables
Kho-Kho ground	2
Kabaddi ground	2
Volley ball court	1
Basket ball court	1
Cricket Box Nets	5
Shooting Range	1 (8 lanes)
Softball ground	1
Baseball ground	1
Carrom	10
Table Tennis	2
Yogasanas	1 hall
Football ground	1

- The College Gymkhana avails various additional facilities in certain sports like swimming, lawn tennis and badminton from external agencies to enable students to practice.
- A separate room is allocated for NSS in Arts Building to carry out NSS work.
- One room in Hostel is allocated to NCC Boys unit to manage and maintain their work.
- Separate space has been allocated to NCC Girls unit in Girls Common Room.
- Routine exercise and drill for NCC cadets are carried out in the campus.
- For cultural activities, a separate room is made available on second floor above Bank of Maharashtra.
- The open air amphitheatre *Rupangan*, and activity area *Saawli* serve as spaces to foster cultural activities, interaction, discussions and rehearsals.
- A fully-equipped, air conditioned multipurpose hall with the capacity of 700 and

seminar room with a capacity of 60 located at the first floor of the New Building are used for conducting extra-curricular and cultural activities. The seminar hall in the Science Building with a capacity of 100 is also used for the same.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilised? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The College ensures that classroom facilities and equipments in the laboratories are added or upgraded as per the requirements of revised syllabi from time to time.

Facilities developed during last four years are *Rupangan*, Central Research Laboratory, *Saawli*, Volley ball court, Basketball court and the expenses are as below:

Amount (in rupees) spent during the last four years:

	2012-2013	2013-2014	2014-2015	2015-2016
Building	58,46,628/-	19,47,920/-	19,82,451/-	10,55,641/-
Furniture	2,01,176/-	65,296/-	2,13,407/-	3,42,911/-
Equipment	67,996/-	1,800/-	53,360/-	50,689/-
Computers	1,18,841/-	9,600/-	55,941/-	40,605/-
Any other	1,124/-	1,500/-	61,584/-	51,999/-
Total	62,35,765/-	20,26,116/-	23,66,743/-	15,41,845/-

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The College is sensitive to the needs of physically challenged students and all possible efforts are made to provide a supportive and comfortable learning environment to them.

- Ramps are constructed at the entrance of all the buildings.
- Class rooms on the ground floor are provided for these students. A change in the allocation of rooms is made, if required.
- Separate examination blocks are allocated for these students on ground floor.
- A wheel-chair is made available if needed.
- JAWS software for visually challenged students is available in the UGC Resource Centre.

4.1.5 Give details on the residential facility and various provisions available within them: Hostel Facility for – Accommodation available, Recreational facilities, gymnasium, yoga centre, etc., Computer facility including access to internet in hostel, Facilities for medical emergencies, Library facility in the hostels, Internet and Wi-Fi facility, Recreational facility- common room with audio-visual equipments, Available residential facility for the staff and occupancy Constant supply of safe drinking water, Security.

College has a Boys' Hostel in the campus that accommodates 70 students. The facilities provided are as follows:

- 35 double occupancy rooms and 6 single occupancy rooms. The rooms are well-furnished with a bed, cupboard, study table and chair.
- A recreational room with a television
- One sports room which consists of indoor games like Table Tennis, Carrom
- The hostel is located in the campus, thus the well-equipped gymnasium and all the sports facilities with a big, well-maintained sports ground is available for the students.
- The students also access the College Library and Reading Hall.
- First aid boxes are available at different locations and the college has a tie-up with Shushrusha Hospital for medical emergencies.
- Two rooms are available as residential facility for the staff in the hostel.
- Two water purifiers ensure that safe drinking water is available.
- Solar panels have been installed on the hostel since 2004 for water heating.
- A CCTV camera has been installed at the entrance of the Hostel.

The safety and security of the students, faculty and the institutional assets on the campus of 10 acres is ensured. The campus is guarded round the clock by a security system which includes female guards. A logbook for all visitors is maintained at both the entrances of the College. After College hours, entrances to all the buildings are closed.

- 50 surveillance cameras have been installed in the College campus.
- Identity cards have been issued to the students, teaching and non-teaching staff members who wear them as long as they are present on the campus.
- Safety in the laboratories is maintained through strict supervision by the faculty and laboratory assistants.
- Fire extinguishers have been installed as per the norms of the fire security services.

- Water purifiers and coolers have been installed at various places in the College buildings.
- The Girls' Common Room is located adjacent to the Vice-Principals' cabins thereby ensuring greater security for female students.
- All the students have been insured under the Group Insurance Scheme.
- Water tanks are cleaned once in a year. All the maintenance norms for elevator, fire extinguishers are strictly followed.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

The following facilities are available:

- Basic first aid
- Doctor-on-call facility
- Tie-up with Shushrusha Hospital for medical emergencies.

4.1.7 Give details of the Common Facilities available on the campus spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

- Dedicated rooms have been allotted for IQAC, Grievance Redressal Unit, Women's Development Cell and Suman- Counselling Centre. Suggestion drop boxes in the office, examination department and faculty common room.
- The College has a spacious Canteen with an area of 3594 sq.ft, which serves a variety of dishes at reasonable rates. In view of their harmful effects on health, aerated drinks are not sold in the Canteen as a College policy.
- Canteen counter is set up for teachers in faculty common room.
- 48' LED TV which screens news channels in the Faculty common room.
- 12 water purifiers and coolers are installed at different locations in the college to provide safe drinking water
- Auditorium and seminar halls are used for conferences, seminars and college programmes.
- Lawns, *Rupangan* – open-air amphitheatre and *Saawli*- activity area are used as recreational spaces by staff and students.

4.2. Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, a Library Committee has been constituted comprising of:

- Chairperson - Principal
- Secretary - Librarian
- Members - Heads of Department or senior teachers from each faculty
- Member – non-teaching staff

The meetings of the Committee are held every year to formulate policies, decide the budget allocation and make future plans.

- The entire functioning of the library is computerised using SOUL 2.0.
- The library scans and e-mails the content pages of periodicals to the teachers. Photocopies of important articles of interest are also sent to the teachers.
- The library has a display section, which displays the new arrivals.
- The library timings are extended beyond the regular working hours for the benefit of the students during the examination period.
- The library has developed *Digital Repository access* by which information about the availability of books is accessible via LAN. In future, the College plans to extend this facility to the internet, so that this information can be accessed from outside.

4.2.2 Provide details of the following:

Total area of the library (in Sq. Mts.): 10,000 Sq.Mts

Total seating capacity:

Reading Hall – 210 students

Teachers – 24 members

Working hours (on working days, on holidays, before examination days, during examination days, during vacation)

Regular working hours : 7.30 am to 5.00 pm

Examination period : 7.30 am to 8.00 pm

Sunday/holiday closed

Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources) – Please refer to annexure-5.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The Library ensures constant up-gradation of its resources through purchase of latest books and journals. The Heads of Departments and teachers recommend the purchase of prescribed and suggested books as per revised syllabi. The budget allocation and expenditure report are forwarded to departments twice in the year. Reimbursement is given for relevant books purchased by teachers directly from bookshops, exhibitions and through online shopping. Catalogues from publishers are forwarded to the Departments.

Regular updates about newly published books are sent to teachers through email. Exhibition of new books is arranged in the College Library. If necessary, online resources are used for obtaining current titles, print and e-journals and other reading materials.

The index pages of latest journals are emailed to the teachers regularly. New titles, book jackets, periodicals are displayed in library entrance. The Library organises Book exhibitions to commemorate important occasions like Marathi Bhasha Din, Constitution Day and so on. The relevant collection is displayed to create curiosity and awareness among students about its significance.

Library Holdings	2011-12		2012-13		2013-14		2014-15	
	No.	Total Cost	No.	Total Cost	No.	Total Cost	No.	Total Cost
Text Books	488	26,095	504	1,07,546	635	1,15,844	626	1,27,945
Reference Books	1084	3,63,317	570	2,15,149	599	2,39,075	634	2,80,664
Journals/ Periodicals	128	1,06,699	129	1,11,592	127	1,19,949	129	1,54,450
e-resources	1	5,000	1	5,000	1	5,000	1	5,000
Donation	206	-	334	-	194	-	484	-

Total Cost in Rupees

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

OPAC: Through library software SOUL 2.0, OPAC (Open Public Access Catalogue), information regarding the availability of books and resources can be accessed.

Electronic Resource Management package for e-journals: N-List from INFLIBNET gives access to E-Journals and Books

Federated searching tools to search articles in multiple databases: No. Separate webpage for library is linked with college website.

In-house/remote access to e-publication is by Digital Repository access through intranet (In-house): Yes. It is available through SOUL 2.0 integrated library management software developed by INFLIBNET Centre.

Total number of computers for public access: 02 (One for teachers with internet facility)

Total numbers of printers for public access: Service is available in UGC Network Resource Centre.

Internet band width/speed 2mbps / 10mbps / 1gb (GB): 40 mbps

Institutional Repository: Yes (Built on DSpace software, and linked with library webpage) Collection in the repository is as follows and is in process.

- Educational Museum – Handwriting of eminent persons, rare books.
- Publications – College in-house publications, publications through library creative unit.
- Question papers of previous examinations are made available for reference.
- Research papers by faculty members.
- Local history documents.
- Issues of *Imprints* - college magazine.
- Old photographs of College activities.

Content management system for e-learning: No

Participation in Resource sharing networks/consortia (like INFLIBNET): Yes. Member of NLIST consortia.

4.2.5 Provide details on the following items:

Average number of walk-ins: 170 Students

Average number of books issued/returned: Issued = 53 books Returned = 52 books

Ratio of library books to students enrolled : 1: 41

Average number of books added during last three years : 1188 books

Average number of login to opac (OPAC) : 32

Average number of login to e-resources: 05

Average number of e-resources downloaded/printed: 650

Number of information literacy trainings organised: 02

Details of “weeding out” of books and other materials:

In case of lost books, the amount is recovered from the student/teacher and deposited in the College Office. The old and out of syllabus books, damaged books are weeded out from time to time with the permission of the Principal.

4.2.6 Give details of the specialized services provided by the library

- **Manuscripts:** No **Reference:** Yes **Reprography:** Yes
- **ILL (Inter Library Loan Service):** Yes
- **Information deployment and notification:** Yes
- **Download:** Service is available in UGC Network Resource Centre.
- **Printing:** Service is available in UGC Network Resource Centre.
- **Reading list/Bibliography compilation:** Yes
- **In-house/remote access to e-resources:** No
- **User Orientation and awareness:** Yes
- **Assistance in searching Databases:** Yes
- **INFLIBNET/IUC facilities:** Yes
- **Other (Traditional Services) -**
 - Document delivery service
 - Journal Content Pages
 - Catalogues
 - Book exhibitions
 - Books for former students – Yes.
 - Book Bank – Yes. For reserved category as per University norms.
 - College Book Bank– Yes. For needy and economically backward students.
 - Displays – Yes.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

- Book Bank
- Lending-Direct Demand
- OPAC search
- Doctoral students- Guidance about bibliographic services, discussion report/ thesis writing, research methodology, Bibliographic patterns
- Document delivery service
- Display of classification method with classification numbers
- Additional books and reference material is made available for project work, preparation for quiz, elocution and other competitions.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The College Library has some books in Braille. The JAWS software is also available for visually challenged students in the UGC Resource Centre. A ramp has been constructed to provide easy access.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement to of the library services?)

In the year 2013-2014 library had conducted a survey of students who are using Book Bank facility. The feedback was used to improve the services.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system)

Number of computers with configuration:

- Eight separate Computer Laboratories are available for BSc (IT), MSc (IT), BSc (CS) and MSc (CS) with 131 computers and 1 server and 4 printers. The details are as follows -

Location No. of Terminals Operating system	Processor	RAM HDD	Peripherals	Printer Scanner
Room No. 401 30 WINDOWS 7	Intel Core i5 Fourth generation 3.0 GHz	8Gb 500Gb	20'' DELL LED Monitor, Keyboard/Mouse, ATX Cabinet	Network Printer
Room No. 402 12 WINDOWS 10	Intel Core i5 fourth generation 8.0 Ghz	8Gb 1TB	20'' Dell ultra HD LED Monitor, Keyboard/Mouse, ATX Cabinet	Network Printer
Room No. 404 30 WINDOWS 7	Intel Core i5 Second generation 3.0 GHz	8Gb 500Gb	20'' Viewsonic LED Monitor, Keyboard/Mouse, ATX Cabinet	Network Printer
Room No. 405 20 WINDOWS 7	Intel Core i5 Second generation 3.0 GHz	8Gb 500Gb	LED Monitor, Keyboard/Mouse, ATX Cabinet, operating system WINDOWS 720'' Viewsonic	Network Printer
Room No. 406 16 WINDOWS 7	Intel Core i3 Second Generation	2Gb 160Gb	15'' LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Network Printer
Room No. 407	Intel Core i5	4Gb	20'' Dell LED Monitor, DVD	

23 WINDOWS 7	Fourth generation 3.0 GHz	500Gb	RW, Keyboard/Mouse, ATX Cabinet	Network Printer
Laboratory for Applied Component of Commerce and Mathematics and Statistics 40 Windows 7	Intel Core to Quad 2.3 Ghz	2Gb 160Gb	LG CRT Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Network Printer
	Intel Core to Quad 2.3 Ghz	2Gb 500Gb	16'' Acer LCD Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet,	4 2
Principal's Office 01	Intel core i5 Second generation 2.5 Ghz	4GB 500 GB	24'' Viewsonic LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Brother multifunction – Printer, copier, scanner
Vice- Principal's Office 1	Intel core i5 second generation 2.5 Ghz CPU	4GB Ram	500 GB Hard Disk, 24'' Viewsonic LED Monitor, DVD RW, Keyboard/Mouse, ATXCabinet	Brother MFC laser Printer
Vice- Principal's Office 2	Intel core i5 second generation 2.5 Ghz CPU	4GB Ram	500 GB Hard Disk, 24'' Viewsonic LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Brother MFC laser Printer
Vice- Principal's Office Jr College	Intel Pentium Dual core 2.5 Ghz CPU	1GB Ram	160 GB Hard Disk, 15'' Samsung LCD Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	HP 1007 Printer
College Office 17	Intel Pentium Dual core 2.5 Ghz CPU	1GB Ram;	160 GB Hard Disk, 15'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LPB 2900 (Total 8)
College Office Extension 05	Intel core i3 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk, 20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer (Total no.4)
Staff Common Room	All in one machine			
Department of Physics 05	Intel core i3 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk, 20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	HP 1020 LaserJet Plus Printer
Department of Physics 05	Intel Pentium Dual core 2.5 Ghz CPU	2 GB Ram	160 GB Hard Disk, 19'' LG LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
Department of Psychology 02	Intel Pentium Dual core 2.5 Ghz CPU	2 GB Ram	160 GB Hard Disk, 19'' LG LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	
Department of Psychology 01	Intel core i3 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk, 20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
Department of Psychology 02	Intel core i3 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk, 20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	HP Multifunction Printer
Department of Statistics 03	Intel Pentium Dual core 2.5 Ghz CPU	1 GB Ram	160 GB Hard Disk, 20'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer

Department of English 03	Intel Pentium Dual core 2.5 Ghz CPU	1GB Ram	160 GB Hard Disk,15'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
Department of Botany 01	Intel Pentium Dual core 2.5 Ghz CPU	2 GB Ram	160 GB Hard Disk,20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	HP 1007 Printer
Department of Zoology 01	Intel Pentium Dual core 2.5 Ghz CPU	2 GB Ram	160 GB Hard Disk,15'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	HP 1007 Printer
Department of Economics 01	Intel core i3 3.0 Ghz CPU.	4GB Ram	500 GB Hard Disk,20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Brother laser multifunction
Department of Marathi 01	Intel core i3 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk,20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
Department of Commerce 01	Intel core i3 3.0 Ghz CPU.	4GB Ram	500 GB Hard Disk,20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
Department of Accountancy 01	Intel core i3 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk20'' Dell LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
Examination Department 02+02	Intel core i3 second generation 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk,20'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
	Intel Pentium Dual core 2.5 Ghz CPU.	2 GB Ram	160 GB Hard Disk,20'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Epson 2950 FX dot matrix Ricoh Reprographer Ricoh Photocopier
Department of Mathematics	Intel (R) core (TM) i-5-2320 CPU	RAM 4 GB	500 GB Hard Disk,18'' View Sonic LED Monitor, Logitech Keyboard/Mouse, Mercury MS 440	HP Laser Jet P10 07
Library 5 + 5	Intel core i3 fourth generation 3.0 Ghz CPU	4GB Ram	500 GB Hard Disk,20'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	Canon LBP 2900 Printer
	Intel Pentium Dual core 2.5 Ghz CPU	2 GB Ram	.;160 GB Hard Disk,20'' Samsung LED Monitor, DVD RW, Keyboard/Mouse, ATX Cabinet	HP Scanner Canon Xerox machine
UGC Resource Centre 10	Intel Core 2 Duo	2 GB Ram	160 GB HDD, LED Monitor, Keyboard, Mouse, ATX Cabinet	

Computer-student ratio - 1:1 (This is ensured by allocating proper time slots for each batch in each laboratory.)

Stand-alone facility – No, all the computers are connected by using LAN facility.

- Widely spread fiber optics back bone made for the optimum reach of the network.
- Wi-fi facility – available in faculty common room, room number 2 Sc and 301.
- Wi-Fi facility provided as and when required.

Information about Licensed software: Please refer to the annexure-8.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

Most of the departments are provided internet connectivity under NME ICT program with bandwidth of 512 Kbps along with Faculty Common Room, Office and Examination Department. Students are given free internet access in the Library / UGC Resource Centre.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The deployment and upgrading of IT infrastructure is carried out periodically. The College has developed a computer laboratory with 50 computers in the library section which is used to conduct admission process, online examinations, collect feedback and training programmes.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Year	Number of Computers	Amount Spent
2010-2011	16 Computers	3,60,000 /-
2011-2012	54 Computers, 1 server, 1 printer	16,65,599 /-
2012-2013	10 Computers and upgradation of existing systems	3,45,250/-
2014-2015	51 Computers	15,31,500 /-
2015-2016	1 computer, 3 printers, 1 scanner	60,160 /-

The expenses related to computers have been partly funded through UGC Grants.

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- DST funding has been utilised for development of e-resources with ICT resources. (Room No. 402)
- A multimedia centre has been set up to help teachers in recording lectures and preparing instructional material. It is equipped with a high-resolution scanner, digitiser, video camera, video signal processing cards and mp3 recorder. Teachers are encouraged to prepare lectures and electronic teaching material through the UGC Network Resource Centre set up in the College.
- Most departments have computer with internet connectivity. The teachers as well as the students make extensive use of computers for preparing presentations, seminar papers and projects as well as for reference work.
- Two computers with internet access and a laser printer have been provided in the Staff Common Room to assist teachers in preparing for lectures.
- Students have access to the computers in the library and in UGC Resource Centre free of cost.
- Vriddhi software is extensively used for collection of fees and other administrative work.
- Special modules have been developed in Tally package for detailed financial accounting as per the requirements of the College.
- Admission software has been updated as per the guidelines of the University of Mumbai and Deputy Director of Education, Greater Mumbai.
- The new software required for maintaining records of students' results in the form of a credit bank has been entirely developed in-house. The creating and printing of mark sheets in the newly-prescribed University format is also done in-house rather than outsourcing the work.
- The Library uses SOUL software and barcode system.
- An MOU with Consularis was signed in order to train teachers in the use of Google apps. Training sessions were conducted for the same. E-mail ids in the format name.surname@ruparel.edu have been issued to all the permanent staff members (teaching and non-teaching) of the College.
- The teachers were also given training in using MOODLE to prepare question banks and conduct online examination. Since the College uses Vriddhi Package in the office

administration, training sessions were also held for the office staff in the same.

- Thus, there has been a consistent increase in the use of ICT resources for teaching, learning and evaluation.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

ICT-enabled teaching-learning tools like ceiling-mounted data projectors, computers with internet connectivity, and open source softwares are made available to make the learning process interesting for the students.

The MOODLE software is used for preparing question banks and conducting internal examinations. Free resource simulations are used for teaching science concepts and experiments. RF response cards have been purchased to aid the testing and scoring processes. A smart-board has been set up in order to make teaching-learning more interesting and informative.

Excel-based programme developed in-house is used for maintaining defaulters' lists and for analysing student progression.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of ?

Yes. In addition to the existing network, there are 10 Internet connections under NME-ICT (National Mission on Education using ICT) programme with bandwidth of 512 kbps each.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and up keep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The College gives regular attention towards maintenance and upgradation of all its facilities for the benefit of the stakeholders. The water coolers and purifiers, elevators, fire extinguishers and water tanks are serviced at regular intervals. The budget allocated for building, furniture, equipment and computers is as follows:

Year	2012-2013	2013-2014	2014-2015	2015-2016
Amount (in Rs.)	30,00,000/-	75,00,000/-	53,00,000/-	68,00,000/-

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The non-teaching staff of the Department of Information Technology and Computer Science has been trained to carry out the maintenance of the computers and accessories. For major or severe faults, the circuit boards are usually sent to the vendors. The non-teaching staff has also been trained to assemble the computer systems. UPS and batteries are covered under the Annual Maintenance Contract (AMC) with the supplier.

Water filters and coolers and the elevators are maintained through AMC. Housekeeping services are carried out by specially appointed staff in the New Building. The equipments and apparatus are repaired through the manufacturers, as and when needed or under AMC. Since the College has a huge campus, cleaning of specific areas is designated to the non-teaching staff, appointed for the same. The Heads of the Department overlook the cleanliness of the departments and the Cleanliness Committee members regularly monitors the work.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment / instruments?

The institute takes up calibration and other precision measures of the equipment/instruments regularly. Non-teaching staff of respective departments are trained in equipment maintenance and operation.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

Power failures are very rare, yet the computer laboratories have a provision of UPS. Other desktop computers have stand-alone UPS wherever required. The College has adequate water supply round the year. For its lawns, gardens and washrooms water supply is ensured through the rain water harvesting.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

A unique feature of the College is that the non-teaching staff is motivated and trained to carry out maintenance of IT resources such as printers, networking and computers. This ensures that most of the IT-related maintenance is carried out in-house thereby resulting in saving of time and funds.

Software for processing, printing and analysis of results has been developed in-house.

The campus development projects like construction of the amphitheatre *Rupangan* and the activity area *Saawli* have been accomplished through volunteer efforts put in by the teaching and non-teaching staff of the College.



Criterion 5

Student Progression and Support

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, annually updated prospectus is published and made available to the students along with the admission forms. At a glance, the prospectus provides information about the academic, sports and the extra-curricular activities of the College. The prospectus also gives information about the following aspects:

- College and its establishment
- Vision and Mission of the Institution
- Programs and Courses offered
- Office working days and timings, fee structure (including payment of fees and refund), rules and regulations about railway concession
- Library, Gymkhana and Boys Hostel
- Rules of discipline
- UGC regulations on menace of ragging
- Various administrative committees which govern the institution's quality and performance as well as provide support to the students. These are:
 - Women's Development Cell
 - Student Welfare Committee
 - Guidance and Counselling Cell
 - Special Advisory Committee
 - Student's Grievance Redressal Committee
 - Placement Cell, Canteen Committee
 - Cleanliness Committee
 - Discipline Committee
 - Anti-Ragging Committee
 - Research Committee
 - Internal Complaint Committee for prevention of sexual harassment at work place.
- Government of India Freeship and Scholarship for students from the reserved category.

- Aided and Unaided programmes / courses offered by the Degree College.
- Scheme of examination and Credit Based Grading System.
- Revaluation of answer books and other important rules of examination.
- List of endowment prizes: academic, co-curricular and extra-curricular activities.
- Information about University of Mumbai website and other websites related to scholarship.

5.1.2 Specify the type, number and amount of institutional scholarships/ freeships given to the students during the last four years and whether the financial aid was available and disbursed

Various prizes and scholarship have been instituted by the College and are awarded to the meritorious students every year on the College Annual Day.

The details of the same are as follows:

Year	No. of students	Total Amount
2011 – 2012	123	57,775/-
2012 – 2013	120	64,347/-
2013 – 2014	122	61,415/-
2014 – 2015	119	65,960/-
2015 – 2016	123	66,450/-

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

The percentage of students receiving financial assistance from state government is as follows:

<i>Year and Number of students admitted</i>	<i>Percentage of students who have received financial assistance</i>	<i>Amount</i>
<i>2010-11</i> 2844	Freeship Holder – 15.82% Scholarship Holder -12.94%	3157180/- 3652150/-
<i>2011-12</i> 2930	Freeship Holder –10.27% Scholarship Holder – 12.22%	2548863/- 3846347/-
<i>2012-13</i> 2935	Freeship Holder – 10.63 % Scholarship Holder- 11.75 % Open Merit –2.42%	2469607/ 3897080/- 79800/-

2013-14 3162	Freeship Holder -12.11%	3986717/-
	Scholarship Holder-13.47%	5008866/-
	Open Merit --1.71%	61800/-
2014-15 3460	Freeship Holder -11.25%	2382195/-
	Scholarship Holder-12.51%	2214347/-
	Open Merit --1.59%	63200/-
2015-16 2874	Freeship Holder –12.30%	2030246/-
	Scholarship Holder- 12.95%	3596052/-
	Open Merit –1.54 %	50000/-

The College office has a separate section for the processing of scholarships and freeships given by the State Government. This office extends all necessary support to the students to complete the formalities. The information regarding the scholarships and application format, documents required is included in the prospectus. This information is also publicized through the students' notice boards. The students are provided technical support to complete the online form. Information about other Scholarships is also displayed on the notice boards. Apart from freeships, scholarships and open merit scholarship given by the Government, students also apply for scholarships given by local bodies and private institutes, the record of which is not maintained by the College.

5.1.4 What are the specific support services/facilities available for Students from

- *SC/ST, OBC and economically weaker sections,*
- *Students with physical disabilities*
- *Overseas students,*
- *Students to participate in various competitions/National and International,*
- *Medical assistance to students: health centre, health insurance etc.,*
- *Organizing coaching classes for competitive exams,*
- *Skill development (spoken English, computer literacy, etc.),*
- *Support for “slow learners”,*
- *Exposures of students to other institution of higher learning /corporate /business house etc., Publication of student magazines*
- ***Students from SC/ST, OBC and economically weaker sections***
 - The College strictly adheres to all the admission procedures that are applicable to SC/ST, OBC and economically weaker sections.
 - Personal guidance and technical support is provided to the students from the SC/ST, OBC categories to complete the online form for freeship / scholarship.

- In addition to the Book Bank Scheme of the University, the College has its own Book Bank Scheme for needy students.
- The College gives financial support or grants fee waiver for needy and deserving students
- Facility of paying the fees in installments is provided on request.

Students with physical disabilities

- Classrooms and examination halls for differently-abled students are allocated on the ground floor to provide easy access.
- The College makes changes in the time-table and classroom allocation for the ease of access to physically challenged students on a case to case basis.
- Ramps have been constructed at all the entry points in all the buildings of the College.
- Writers are provided to the visually challenged students at the time of examination.
- During examinations, differently-abled candidates are given extra time as per the University rules.
- JAWS software is available for visually challenged students in the UGC Resource Centre to enable them to read study material.
- A separate meeting of the parents and students with the Principal and the College Counsellor is conducted. They are informed about the examination and gracing rules, documents to be submitted for the same, support provided by the College and any other relevant information.
- The College counsellor conducts individual sessions with the parents and students and provides information and counselling in *Effective Study Skills*, other academic and personal areas.
- The examination and gracing rules are meticulously followed.

➤ ***Overseas students***

Hostel facilities are available for male students.

Only one student from Japan had taken admission in the College in the year 2013-2014. He was extended the support to complete the technical and legal formalities for admission. He was guided in academics and to adjust to the College environment.

➤ ***Students to participate in various competitions/National and International***

All the information about various competitions and events is sent to the teachers in-charge and is put up on the notice boards. Students are encouraged to participate in these competitions and events. They are given all the required infrastructural, financial

and coaching assistance to participate in sports and cultural activities. In fact, the College also organises various talks, training workshops and interactions with experts so that the students learn the necessary skills in these areas.

➤ ***Medical assistance to students: health centre, health insurance etc.:***

First aid boxes are available in various departments in the Campus. The College has a tie up with the nearby Shushrusha Hospital to provide immediate medical attention to bonafide students and staff members in case of an accident, mishap or any kind of emergency. Emergency help through on call doctor is also available. All the students are covered under Group Health Insurance by the College.

➤ ***Organizing coaching classes for competitive exams***

Department of Physics provides guidance for competitive examinations like NGPE, IIT, NET, SET and GATE. Study and reference books for all these examinations are available in the library. Interactions with the experts and field visits are organised to benefit the students preparing for UPSC and MPSC examinations.

➤ ***Skill development (spoken English, computer literacy, etc.)***

Certificate courses and other value added programmes are conducted by various departments. They are interdisciplinary in nature or of practical importance for students. These courses help in generating interest for the subject and students can plan careers based on their experiences and meetings with experts. The theme for the Department of Management Studies for the year 2015-16 was *Building of Soft Skills*, so all the talks organised were in line with this theme. Detailed information about this has been given in Criterion 1.1.7.

➤ ***Support for “slow learners”***

- Mentoring system - Some departments have initiated mentoring system. They identify students' grasping / learning abilities and difficulties, if they have any, in their studies. Help is provided by the mentor to improve the performance of the student.
- Workshop on laboratory techniques, skill development, and language proficiency are conducted.
- Parents' meetings are held regularly to inform the parents about the progress of the students.

➤ ***Exposure of students to other institution of higher learning /corporate /business house etc.***

Institutional visits, field visits and guest lectures are organised by departments to enhance knowledge of students regarding better prospects of higher learning and career options. Some examples of institutional visits are –

- Indian Meteorological Department (Colaba)
- Marine Biological Research Institute (Ratnagiri)
- Forest Research Institute (FRI) , Dehradun
- Central Institute of Fisheries Education (CIFE).
- Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
- Sudhir Generators (Silvasa)
- AMUL- Kaira District Co-operatives Milk (Ahmadabad)
- Ceat Tyres (Parihanse)
- Forbs and company Ltd.(Aurangabad)
- Camlin industry (Tarapur)
- Reliance Corporate Park (Mumbai)
- Food and Drug Administration (Mumbai)
- Bhabha Atomic Research Center (Mumbai)
- Tata Institute of Fundamental Research (Mumbai)

Detailed information about this has been given in Criterion 2.2.4.

Publication of student magazines

The College magazine *Imprints* is published every year. Students are members of editorial board and also contribute by writing articles and poems.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

To facilitate entrepreneurial skills among the students, various field visits and orientation lectures are organised by the departments. The students play an active role in organizing and managing the programmes of the department and the College. They gain experience about acquiring sponsorship, preparing budget, submission of accounts and event management. The students of BMS celebrate Entrepreneurship Day, wherein they prepare and sell some products.

In 2015, students of DLLE Unit prepared and sold decorative wax candles and lamps before the Diwali Festival.

In association with Khadi Gram Udyog, seminars on entrepreneurship were organised in 2015 and 2016. Students interacted with entrepreneurs and participated in demonstrations of pottery, incense stick making and paper bags making. This has resulted in greater awareness amongst students about self-employment opportunities.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, quiz competitions, debate and discussions, cultural activities etc., additional academic support, flexibility in examinations, special dietary requirements, sports uniform and materials, any other.

The College encourages students' participation in extracurricular and co-curricular activities by providing infrastructural, financial and training support. The various departments and associations organise programmes like talks, workshops, sports, games, quizzes, debate and discussions.

Departmental fests are organised to enhance the interest of the students in the subject e.g.

- Arthotsav – Intercollegiate Economics Festival
- Aarambh – Intra-college Management Festival
- Vibgyor – Intra-collegiate Physics Festival
- Carpe Diem – Intra-collegiate Literary Festival
- Psynergy – Inter-collegiate Psychology Festival
- Dot Tech – Intra-collegiate Information Technology and Computer Science Festival.

The Students' Council / Committee organises various cultural events and actively contributes to the management of Annual Scholars Day and Gymkhana Day. These students are given additional academic guidance as and when needed. Adjustments are allowed in practical conduct, if required.

The College provides financial assistance for the costumes and the back stage requirements for cultural performances. The sports persons are provided the uniform kit and daily allowance.

While declaring the schedule of internal and other examinations conducted by the College as per the University rules, schedule of competitions organised by the University is taken into consideration. For all the students who miss their examination on account of participation in extracurricular and co-curricular activities, additional examination is conducted as per rules of the University.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, ATE/CAT/GRE/TOFEL/GMAT/ Central/State services, Defense, Civil Services, etc.

The Department of Physics conducts Entrance Exam in Physics (E²P) programme under which students are guided for various competitive examinations. Every year, an average of 15 students availed of this guidance. Ms. Tanvi Paradkar, a student of Marathi Literature qualified in the UGC NET examination (Library and Information Science) in 2012-2013.

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Suman - Career Guidance and Counselling Centre provides free of cost support to the students for coping with personal, academic, and career concerns. The Counsellor Ms. Neelima Deshpande, professional psychologists and counsellors from Ascend Psychology organization conduct workshops and give talks which are beneficial for the personality development of the students.

Following are the programmes conducted through *Suman*:

2010 - 2011

- Workshop on *Enhancing Decision Making*
- Talk on *Managing Fear and Anxiety*
- Workshop on *How to Get More out of Your Life*
- Talk on *Enhancing Self-Awareness*
- Workshop on *Enhancing Creativity and Innovation*
- Talk on *Dealing with Difficult People*
- Workshop on *Developing Assertiveness*
- Four workshops on *Effective Study Habits* for students of Physics and 3 workshops for the students of Chemistry.

2011 – 2012

- Workshop on *Developing Conversational and Communication skills*
- Talk on *Dealing with Rejection*
- Workshop on *Developing Optimism*
- Talk on *Self-Acceptance*
- Talk on *Coping with Changes and Challenges*
- Workshop on *Goal setting*

- Workshop on *Emotional Intelligence*
- Talk on *Courses and Careers after BA in Psychology*
- 14 workshops on *Effective Study Habits* for students of Physics, Botany and Psychology
- Two workshops on *Effective Time Management* for the students living in the College hostel

2012 – 2013

- Two workshops on *Effective Study Habits* - for students of Information Technology.
- Two workshops on *Effective Study Habits* - for students of Physics

2013 – 2014

- Workshops for students of Physics on *Effective Study Habits*
- Two group guidance sessions on *Goal Setting* for students of SY and TYBMS.
- A group guidance session on *Fear of Mathematics* for students of FYBMS.
- Two group guidance sessions on *Effective Study Habits* for students of SY and TYBMS.
- Five group guidance sessions on *Nutrition and Fitness* for students of all faculties.
- Two group counselling sessions for students of FYBSc Physics on *Coping with academic demands*

2014 – 2015

- Two workshops on *Effective Study Skills* for FYBSc and TYBSc students of Physics.
- Three group guidance sessions on *Goal Setting* FY, SY and TYBMS students
- Group Guidance session on *Effective Study Skills* for SYBMS and TYBMS.
- Nine group guidance sessions about *Nutrition and Fitness* for students of all faculties.
- Eight group guidance sessions for students of Physics, Chemistry, Statistics and Marathi on *Effective Study Skills*
- Presentation by the counsellor to teachers of Statistics and Marathi on *Effective Study Skills*

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes. The Placement Cell was started by the College in 2006 – 2007 with a view to expose students of different faculties about the opportunities in the job market. The Placement Cell informs students about job opportunities through notice boards and co-ordinates the campus interviews held by leading companies from business and IT sectors.

2013 - 2014

Name of Company	Date	Position / Job profile	CTC (PA)	Number of students	
				Registered	Placed
<i>J. P. Morgan and Investment Bank</i>	05/02/14	Team member (Back Office)	2 L +	154	15
<i>Great Place to Work Inst.</i>	18/02/14	Operation Analyst – Consulting	3.28 L +	54	Nil

2014 - 2015

Name of Company	Date	Position / Job profile	CTC (PA)	Number of students	
				Registered	Placed
<i>Reliance Jio</i>	24/02/15	Business Analyst	4 L	120	Nil
<i>Godrej Properties</i>	26/02/15	Marketing and Sales	6.8 L	118	01
<i>Avanti Learning</i>	28/02/15	Marketing Associate	2.5 L +	91	01
<i>Federal Bank</i>	31/03/15	Clerk	3.34 L	100	Nil
<i>Capgemini</i>	1/04/15	System Associate	1.8 L	61	27

2015 - 2016

Name of Company	Date	Position / Job profile	CTC (PA)	Number of students	
				Registered	Placed
<i>Endurance International Group</i>	17/12/15	Web Solution Specialist	3,16,369	62	02
<i>ICICI Prudential</i>	28/01/16	Financial Services Consultant	2,30,000	138	18
<i>Ultima Chemical</i>	17/02/16	Business Development	1.8 L	46	Nil
<i>Directi Group</i>	16/03/16	Business Development Specialist	3,55,060	74	Nil
<i>Directi Group</i>	28/03/16	Research Analyst	2.69.291	26	01
<i>P3 Architectural Solutions</i>	18/03/16	Business Development Executive	2.4 L	35	07
<i>Star India Ltd.</i>	23/03/16	Creative Intern	6 L	102	Result awaited
<i>Capgemini</i>		System Associate	1.8 L		12

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes, the College has constituted a Students' Grievance Redressal Committee. Senior teachers from all faculties are members of the committee. The names of the members of the committee are displayed on the Notice Board.

No major grievances have been reported to the committee during last five years.

Apart from the formal Redressal Cell, the mechanism of redressal of grievances operates at different levels. The open door policy of the Management facilitates the free expression of concerns and quick resolution of issues.

Suggestion / Complaint Boxes have been installed to enable students to express their grievances to the Principal in writing.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The College has constituted a Women's Development Cell, with teaching staff, non-teaching staff, student representative and a legal advisor as its members. The College has also constituted the Internal Complaint Committee for Prevention of Sexual Harassment at Work place (Prevention, prohibition and redressal) according to University norms. The names of the members of this committee are displayed on the students' notice board and also in the Girls' Common Room.

Efforts are made to maintain a healthy academic environment in the College. The College organises programmes to create awareness and sensitise about gender equality. The list of such programmes is given in 2.2.4

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes. An Anti-Ragging Committee has been constituted to maintain a safe and healthy atmosphere on the Campus. The College prospectus contains the details of anti-ragging rules and ordinances of the University of Mumbai. During the admission process, every student is required to sign an undertaking about their awareness of the same. Not a single instance of ragging has been reported in the last five years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The College aims at furthering education for national progress rather than for selfish gains.

- No student seeking admission to the College is denied admission on account of his/her inability to pay the fees.
- Students are permitted to pay fees in installments on request.
- The Students' Mutual Aid Fund and the Students' Welfare Fund provide fees for financially weak students who find it difficult to pay the fees.
- The Book Bank Scheme of the college facilitates deserving students to borrow text books to augment the classroom teaching and learning.
- Students are covered under Group Health Insurance.
- Suman- Career Guidance and Counselling Centre provides guidance and counselling free of cost to students and staff to cope with a variety of personal, academic, and career concerns.
- Sanitary Napkin Vending Machine and Sanitary Napkin Disposal Machine has been installed in the Girls Common Room.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The College can boast of alumni who occupy illustrious positions in academics and the industry. They actively contribute to the development of the College. The alumni association has not been formally registered. The alumni maintain close ties with the College. Alumni meets are organised by the departments and the College. The alumni interact with current students through talks and workshops. They share their expertise with the current students, guide them about career opportunities and enable networking with the industry. Alumni who are professionals guide the students for co-curricular and extra-curricular activities in sports, dramatics and singing. The former students of NCC, NSS and sports attend the Flag Hoisting ceremonies on Independence Day and Republic Day every year. The Department of Psychology was renovated through donations from their alumni. Alumni donations have also enabled renovation of major toilet blocks of the College.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Students progression	%
UG to PG	60
PG to MPhil	10
PG to PhD	30
Employed	
• Campus selection	20
• Other than campus recruitment	N.A

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/ batchwise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Programme	2012-13		2013-14		2014-15	
	College	University	College	University	College	University
TYBSc	82.22	NA	81.29		40.23	56.79
TYBA	82.87	76.05	80.49		71.53	69.74
TYBCom	96.68	81.13	77.67	73.17	89.18	67.34
TYBSc(IT)	69.69	47.70	75.10	56.60	78.85	
TYBMS	85.00	66.14	88.88		69.44	NA
MSc	84.39	NA	81.83	80.11	64.38	71.64
MCom		54.40 (Part I)		81.64	82.14	

Ranks obtained by the students of the College in University Merit list

Year	Class	Name	Rank
2015-16	TYBA - Psychology	Akshata Kulkarni	First
2015-16	TYBSc - Statistics	Vedant Kondkar	First
2014-15	TYBA - Philosophy	Palaya Tejkiran Kaur	Third
2014-15	MSc - Physics	Miss Vidula Angane	First
2014-15	TYBSc - Botany	Miss Nupur Telawane	First
2013-14	TYBSc - Physics	Ms. Sangeeta Dhuri	Third

2012-13	TYBSc - Botany	Miss Ruksar Ansari	Third
2012-13	TYBSc - Botany	Miss Nagma Hazir	Second
2012-13	TYBA - Economics	Ms. Shivali Tiwari	Third
2012-13	TYBSc - Chemistry	Ms. Divya Chenna	First
2012-13	TYBA - Psychology	Ms. Sadaf Vidha	Ninth
2012-13	TYBSc – Statistics	Prajakta Ghadi	Second
2012-13	TYBSc – Chemistry	Divya Ravinder Radha	First
2012-13	TYBA – Philosophy	Tejashree Trimakhe	First
2011-12	TYBA – Philosophy	Kasturi Deshpande	First
2011-12	TYBSc - Physics	Mr. Ajay Lotekar	First
2010-11	TYBA - Psychology	Ms. Poonam Gala	Fifth

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The College provides guidance to the students for pursuing higher education or towards employment through the following methods:

- Talks about higher education opportunities by alumni and experts.
- Career guidance was provided free of cost by *Suman* – The Guidance and Counselling Centre till the academic year 2012-13.
- Some seats of postgraduate courses are reserved for in-house students
- The College Library enables students to prepare for competitive examinations.
- The teachers guide the students to apply for higher education courses or jobs.
- The Placement Cell of the College coordinates with companies to organise campus placement interviews.
- The skill development activities and the *Learning Beyond the Syllabus* initiative help the students to discover their potential.

5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout?

Students who are at risk of failure and drop out are supported by the following methods:

- Weak students are identified through result analysis. Remedial coaching is conducted by some departments. Academic guidance is provided to them.
- The Departments of Physics, Chemistry, Botany, Zoology and Management Studies conduct Bridge Course for the students.
- Financially weak students are given support through Students' Mutual Aid Fund, facility to pay fees in installments or fee waiver on case to case basis. Book Bank Scheme is

also available for such students.

- Students with personal and psychological problems are encouraged to visit Suman for counselling. Some departments organise *Effective study skills* sessions for the students, to improve their study skills.
- The Vice-Principals address the students who have failed and inform them about various methods to overcome academic difficulties.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and programme calendar.

The quest for excellence is reflected in the fact that the College has consistently stood among the **top five Sports rankings** of the University of Mumbai. Three students of the College have won the **highest sports award of Maharashtra State** i.e. *Shiv Chhatrapati Puraskar*.

In keeping with the mission statement of ensuring multi-dimensional personality development of Students, the College has provided facilities or made arrangements for the following sports and games –

Archery	Athletics	Ascend and Descend	Badminton
Baseball	Basketball	Best Physique	Boxing
Chess	Cricket	Cross Country	Cycling
Carrom	Fencing	Football	Gymnastics
Handball	Half Marathon	Judo	Kabaddi
Kho-Kho	Mallakhamb	Power Lifting	Shooting (Air rifle and Pistol)
Softball	Swimming	Table Tennis	Taekwondo
Throw ball	Volleyball	Wrestling	Yoga

The College Gymkhana is well equipped and coaches are appointed for training the students for many games. The Air Rifle and Air Pistol shooting range has been developed with modern equipment like automated targets.

The College has hosted the following Sports Tournaments on behalf of the University of Mumbai:

- University of Mumbai Inter-Collegiate Chess Tournament from 10th to 13th April 2013.

- University of Mumbai Inter-Collegiate Basketball Women's Tournament from 28th to 30th September 2015. The tournament was inaugurated by Honourable Vice-Chancellor Dr. Sanjay Deshmukh.
- University of Mumbai Inter Collegiate Open Side Air Rifle, Peep Side Air Rifle and Air Pistol Shooting Competition from 24th to 29th December 2015.

There are a number of co-curricular and extra-curricular associations to provide a platform for identifying and nurturing the students' talents. The list of such associations is given below:

Cultural

- Nupur (Dance group): to develop the students talent by practicing the various Indian, classical and folk dance forms
- Chitravedha (Film review club): to train students to appreciate cinema as an art form
- Swarsadhana (Music group): to nurture the musical abilities
- NatyaVibhag (Theatre group): to promote acting skills and showcase to wide audience

Co-curricular Associations

AiMS	Association of Management Studies – organise programmes related to BMS
Book Review Club	To make students aware of latest publications
CASSO	Commerce Association – creating awareness about commerce and industry
CHEMARC	Career guidance in Chemistry and interaction with industry
DLLE Unit	Department of Lifelong Learning and Extension Unit
Economica	Organising programmes related to Economics
Genesis	Activities and events related to geography and environmental studies
Maanas	Promoting interest in Psychology
Marathi Vangmay Mandal	Marathi literary association
Open Forum	Stimulating holistic thinking
Science Association	Popularization of science
RUPELA	Fostering interest in English language and literature
Polis	Enhancing awareness about the political system
Tattvadarshan	Promoting critical mind-set through programmes related to philosophy

Community Oriented Activity

- N.C.C
- N.S.S
- DLLE Unit

Every year the College celebrates Annual Days like *Saree Day*, *Tie Day*, *Traditional Day*, *Rose Day*, *NCC Day* and so on with active participation of more than 75% students. The

Annual Scholars' Day and *Gymkhana Day* celebrations are marked by cultural performances in which more than 150 students participate every year as stage performers. A group of more than 250 students volunteers provides help back stage and overall management of the programme. The audience comprises of more than 1500 students. In addition to this various departments conduct Annual Festivals with programmes related to their subjects like *Psynergy* by Department of Psychology, *VIBYGOR* by Department of Physics, *Carpe Diem* by Department of English, *Arthotsav* by Department of Economics, *IT Fest* by Department of IT-CS and *Aarambh* by Department of Management Studies. These Festivals attract enthusiastic participation of students from all faculties.

Cultural events organised and conducted by the College

Traditional Day, Saree and Tie Day etc.	Third Week of December
Annual Scholars' Day	23 rd December
Annual Gymkhana Day	24 th December
Arthotsav	Third week of November
Cricket Matches	Third Week of December
Psynergy	January / February
VIBGYOR- Physics Fest	February
Aarambh	February
DotTech	February
Carpe Diem	February

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University/State/Zonal/National/International, etc. for the previous four years.

2010-2011

<i>Event / Organiser</i>	<i>Name</i>	<i>Prize</i>
<i>Street Play Competition by Masina Institute of Behavioural Sciences</i>	Kalyani Jadhav and Team	First and a trophy
	Kalyani Jadhav	Special Prize and Trophy
<i>Poster Competition at Udaan - The flight of Extension</i>	Nitesh Choughule	First
<i>Hindi Skit Competition at University of Mumbai M.E.T. Mumbai</i>	Vivek Mishra	Consolation
	Vivek Mishra	Journalist of the year
	Vivek Mishra	RJ of the year
<i>Street Play Competition LANG GAUGE – festival conducted by Jhunjhunwala College, Ghatkopar</i>	College NSS Unit	Consolation Prize
<i>Caption Contest</i>	Ishwari Patkar	Second
	Bhavna Suleria	Third
<i>Vocabulary Bonanza</i>	Shivranjani Palkonda	Third
<i>Pick and Talk</i>	Paras Gala	First
	Bhoomi Kothi	Second
<i>MAD HATTERS - Festival Organised by Ruia College</i>		

<i>Extempore</i>	Paras Gala	First
	Raj Daftary	Third
<i>Creative Writing</i>	Neeraja Vaidya	First
	Paras Gala	Second
<i>Group Discussion</i>	Paras Gala	First
	Neeraja Vaidya	Second
	Prachi Chhatre	Third
<i>Just A Minute</i>	Mudhir Shaikh	
	Sameer Bhoite	Second
	Ashutosh Gokhale	
<i>Business Bazigar competition</i>	Vivek Mishra	
	Sandeep Singh	Second
	Jaimala Pandey	
<i>Ad-Mad competition</i>	Sameer Bhoite	
	Ashutosh Gokhale	First
	Mitesh Rakshe	
<i>Virtual Stock Market</i>	Sonali Chavan, Harshad Pebankar Harshada	Second
	Dnyaneshwar Kangane	
	Varsha Sadafule	First
	Prachi Shigam	
	Mihir Chavan Aditi Mahale Yashashree Kamerkar	Second
<i>Being Socially Responsible</i>	Swati Agarwal, Shweta Ambolkar Smruti Phatak	First
	Vivek Mishra Sandeep Singh Jhanvi Vartak	Second
<i>IPTA Intercollegiate Drama Festival- GHUTAN-</i>		
<i>Direction</i>	Ranjeet Patil	Best Director
<i>Acting</i>	Onkar Raut	Best Actor (Male)
	Sai Joshi	Best Actor (Female)
	Nakul Joshi Krunal Rane	Consolation
<i>Malabh Uttung Ekankika Spardha</i>		
<i>One Act Play</i>		Second
<i>Writer</i>	Kiran Yadnyapavit	Best Writer
<i>Direction</i>	Ranjeet Patil	Best Director
<i>Acting</i>	Onkar Raut	Best Actor (Male)
	Sai Joshi	Best Actor (Female)
<i>Acting</i>	Onkar Raut	Second for Best Actor (Male)
<i>Chabbis Gyarah Skit Competition (University Youth Festival)</i>	18 Till I Die	Consolation
<i>Sakal Mahakarandak (Mumbai Final)</i>		
<i>One Act Play</i>		Second
<i>Direction</i>	Omkar Raut	Best Director

	<i>Acting</i>	Tushar Ghadigaonkar	Best Actor (Male)
		Samruddhi Ghumre	Actress (Con. Prize)
	<i>Set Design</i>	Nilesh Chavan	Best Set
	<i>Writer</i>	Onkar Raut	Consolation
<i>Sakal Mahakarandak (Mega Final and Final)</i>			
	<i>One Act Play</i>		First
	<i>Direction</i>	Onkar Raut	Best Director
	<i>Acting</i>	Tushar Ghadigaonkar	Best Actor (Male)
		Samruddhi Ghumre	Best Actor (Female)
		Amol Rewale	Actor(Consolation)
	<i>Lights</i>	Onkar Raut	Best Light
			Arrangement
<i>Kirti Antarang</i>			
	<i>One Act Play</i>		Second
	<i>Direction</i>	Onkar Raut	Best Director
	<i>Acting</i>	Samruddhi Ghumre	Best Actor (Female)
<i>Mahatma Phule Karandak</i>			
	<i>One Act Play</i>		Second
	<i>Writing</i>	Onkar Raut	Best Writer
	<i>Acting</i>	Tushar Ghadigaonkar	Best Actor(Male)
<i>Spandan (Patkar College)</i>			
	<i>One Act Play</i>		Second
	<i>Writing</i>	Onkar Raut	Best Writer
	<i>Acting</i>	Tushar Ghadigaonkar	Best Actor (Male)
		Samrudhi Ghumre	Best Actor (Female)
<i>Youth Festival (University of Mumbai)</i>			
	<i>Marathi Elocution</i>	Deepti Shinde	First
	<i>English Elocution</i>	Sushmita Paria	Second
	<i>Instrumental and Non-Percussion Competition</i>	Sweekar Katti	Second
	<i>Harsholhas</i>		
	<i>Dance Competition</i>	Apoorva Undalkar	Third

2011 – 2012

<i>Event/Organiser</i>	<i>Name</i>	<i>Prize</i>
<i>Youth Festival- University of Mumbai (Contingent leaders: Khushboo Dattani Vinay Vakhare)</i>		
<i>One Act Play</i>	Advait Kadne, Chaitra Ujale Kimaya Mayekar, Sumedh Salvi Rupesh Sawant, Ashutosh Gokhale, Sailee Chaurasia, Sai Joshi	Second Consolation
<i>Skit Competition</i>	Aditya Goregaokar, Sagar Jamkar Ashutosh Gokhale, Deepali Nikalje Mayuresh Pem	Second Consolation
<i>Folk Orchestra</i>	Apoorva Undalkar, Siddhant Jadhav Sandesh Daptare, Niranjan Solaskar Ashwini Damle, Rahul Shinde Bharat Thorat	Third Prize
<i>Group Song</i>	Sayli Mahadik, Mitali Mathure	

<i>P.C. Alexander Elocution</i> <i>Debate Competition</i> <i>Light Vocal</i>	Manasi Deshmukh, Runzun Pandit	First Prize
	Pradya Damle	Second
	Paras Gala	Third
	Rutuja Laud	Third

Harsholhas

<i>Elocution Competition</i>	Pranita Shinde	First
<i>Dance Competition</i>	Sanika Abhyankar, Tushar Kamble	First
<i>Contingent Leader</i>	Yatin Malvankar	Best Contingent Leader
<i>Dance Competition</i>	Tejali Kunte and Ashvini Kusurkar	First

IPTA Awards

Khwaab Shishe Ke - Kaiffee Azmee Jury Award

<i>Actor</i>	Mayuresh Pem	Best Actor
<i>Direction</i>	Kone Eke Kali	Best Direction Second Best Play
<i>Actor in comic role</i>	Mayuresh Pem	Best Comic Actor
<i>Light Arrangement</i>	Bhushan Desai	Best Light Arrangement
<i>Actress</i>	Dipali Nikalje	Best Actress (Third)

2012-2013

<i>Event/Organiser</i>	<i>Name</i>	<i>Prize</i>
<i>Youth Festival (University of Mumbai) Contingent Leaders: Mr. Chaitanya Pawar and Ms. Manali Bhandarkar</i>		
<i>Western Instrumental</i>	Sanchit Mhatre	First
<i>Marathi Elocution</i>	Shreyas Mehendale	First
<i>On the Spot Painting</i>	Prathamesh Shirsat	First
<i>Debate</i>	Paras Gala, Carol Chettiyyar	Third
<i>Folk Dance</i>	Apoorva Undalkar, Shivani Rajshree, PrachiMadre, Prutha Kadam, Akshay Humne, Tushar Kamble, Kedar Dhond Nilesh Jadhav	First Consolation
<i>Poster Making Competition</i>	Mandar Maskar	Consolation
<i>Indian Light Vocal</i>	Mitali Mathure	Consolation
<i>One Act Play</i>	Mayuresh Pem, Chaitra Ujale Tushar Ghadigaokar	Consolation

IPTA

<i>Acting(Face Off)</i>	Kiran Pavaskar, Sachin Mane.	Consolation
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<i>Acting (Shanti Naresh)</i>	Maitreyee Namjoshi	Third
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2013-2014

<i>Event/Organiser</i>	<i>Name</i>	<i>Prize</i>
<i>Youth Festival- University of Mumbai (Student co-ordinators: Ms. Nupur Handa and Mr. Durgesh Jogal)</i>		
<i>Classical Percussion</i>	Tanay Rege	First
<i>Western Instrumental</i>	Sanchit Mhatre	First
<i>Folk Dance</i>	Prachi Madre ,Ankita Gosale Shivani Rajeshree, Prutha Kadam ,Carol Chettiyar Ruchi Kulkarni ,Bhumika Upadhyay, Bhargavi Kadam Tirtha Tikam, Shivani Kandalgaonkar	Consolation
<i>Debate (Marathi)</i>	Shreyas Mehendale, Gauri Kelkar	Consolation
<i>Actor</i>	Kimaya Mayekar, Sachin Mane Vinayak Kadam	Best Actor (Consolation)
<i>Malhar (St. Xavier's College)</i>		
<i>Gaming</i>	Arko Biswas ,Jayesh Tandel, Kartikya Saksena	Third
<i>Entertainment Quiz</i>	Arko Biswas, Abhishek Ravishankar	Second
<i>Classical Singing</i>	Priyanka Mayekar	Second
<i>Idea Jallos Festival</i>		
<i>Marathi Elocution</i>	Gargi Kamath Gauri Kelkar	Second Consolation
<i>Photography</i>	Gargi Sawant	Third
<i>Poetry Recital</i>	Darshan Redkar	Consolation
<i>Maharashtra Utsav</i>		
<i>Contingent Leader</i>	Nikhil Mestry	Best Contingent Leader
	Sumedh Salvi	Utsav King
<i>Photography</i>	Tejas Chachad Nikhil Kamble	First Consolation
<i>Cookery</i>	Shraddha Mhatre Sonali Pinge	Third Consolation
<i>Marathi Elocution</i>	Pranita Shinde	Consolation
<i>Lavani</i>	Chaitra Ujale	Third
<i>Improvisation</i>	Kiran Pawaskar (Director) Adwait Kadne, Pranay Tambe, Kimaya Mayekar, Abhijeet Mohite, Nikita Mahadik, Apurva Kadam, Mandar Worlikar	Third
<i>Rock band</i>	Sanchit Mhatre, Siddhant Kamble, Nikhil Kamble	Second
<i>“Samvaad” Marathi Elocution Competition</i>		
<i>Nee. Go. Panditrao State level Marathi</i>		
<i>Elocution competition</i>		
	Gauri Kelkar	First
	Gargi Kamath	Consolation
	Rohit Phalke	Second
	Savani Vaze	Third
	Gargi Kamath	First

<i>Late Jugaldas Modi Memorial Marathi Elocution Competition organised by Jhunjhunwala College</i>	Gauri Kelkar	Second
<i>Late T. V. Bedekar Memorial Elocution Competition</i>	Devika Walawalkar	Second
<i>Marathi Storytelling competition by K. J. Somaiya College</i>	Atharva Chavan	First
<i>Aamod- Intercollegiate Marathi Literary Festival- College (Contingent Leader: Trupti Panchal)</i>	<i>Organised by Marathi Vangmay Mandal of St. Xavier's</i>	
<i>Monoacting competition</i>	Atharva Chavan	First
<i>Marathi Antaakshari Competition</i>	Aakash Patankar Shreyas Mehendale	Second
<i>Hindi One Act Play competition organised by IPTA</i>	Sachin Mane	Consolation
<i>“Spandan: Marathi One Act play- Organised by Patkar college</i>	Sachin Mane Vinayak Kadam	Consolation
<i>Marathi Mono-Acting Competition, K.J. Somaiya</i>	Atharva Chavan	Consolation
<i>Duet Singing Competition by Raheja College</i>	Kedar Kelkar	First
<i>Marathi Light Vocal Competition</i>	Kedar Kelkar	Third
<i>Lavani – competition in Maharashtra – Utsav.</i>	Manali Patil Vedangi Satardekar	Third Consolation
<i>Aamod- St. Xavier's College Festival</i>		
<i>Solo Folk Dance Competition</i>	Atharv Chavan Manali Patil	Second Third
<i>Samvaad' competition, M. L. Dahanukar college</i>	Ruchi Kulkarni Priya Tarde	Consolation Third
<i>Aachaarya Atre Memorial Marathi elocution competition at M.D. College</i>	Priya Tarde	First
<i>'G. D. Parikh elocution competition', Ruia college</i>	Shreyas Mehendale	Third
<i>Loksatta 'Waktaa Dashasahsreshu' elocution competition</i>	Shreyas Mehendale	First
<i>Kathakathan , K.J.Somaya College</i>	Atharva Chavan	First
<i>Jaihind College Psychology Fest</i>		Best College Trophy
<i>PSYCHOPHONICS 2015 - SNDT's Psychology Fest</i>	Saniha Rao - Debate on Social Networking impact on teenagers Gargi Sawant - Poster Making Photography on Body Image and Relationships	Best Speaker 3rd prize Second prize

2015-2016

<i>Competition</i>	<i>Position</i>	<i>Participant</i>
<i>Indian Classical Vocal</i>	Third	KedarKelkar
<i>Indian Light Vocal</i>	Third	ShrutiSatam

<i>Elocution (Marathi)</i>	First	Priya Tarade
<i>Story Writing</i>	First	Neel Kolhe
<i>Debate (Marathi)</i>	First	Priyanka Mayekar Tanvi Devasthali
<i>Mono Acting (Marathi)</i>	Consolation	Atharv Chavan
<i>Folk Dance</i>	Third	Tirtha Tikam, Sneha Kadam Vedangi Satardekar, Rhea D'souza, Ankita Kamble, Pooja Shirke, Chetali Pandekar, Namrata Bhoir, Aishwarya Dighe

<i>Competition</i>	<i>Position</i>	<i>Participant</i>
<i>Sole Soul</i>	Second	Jayesh Kardak
<i>Instant Karma</i>	Second	Vivek Salunkhe, Mayur Shinde Dattatray Avhad, Apurva Jadhav Siddhi Karade, Rutvij
<i>Jodi Tujhee Majhee</i>	Second	Ruchi Kulkarni Atharv Chavan
<i>Hasya-Ranjan</i>	First	Jayesh Kardak
<i>ShodhKhajinyacha</i>	Second	Sairaj Achrekar
<i>Mono-acting</i>	First	Atharv Chavan
<i>Dance</i>	First	Tirtha Tikam
	Second	Nimisha Walawalkar
<i>Box Cricket</i>	First	Kunal Manohar, Prajakta Cheulkar Sahil Brid, Ashutosh Bhole Himanshu Bidaye, Rohit Ghuge
<i>Paintball</i>	First	Mahesh Garud, Vishwajit Deshmukh, Akash Achrekar Siddhesh Shinde, Sujay Jana
<i>Dodge-a-thon</i>	First	Siddharth Sarawade, Sharan Shetty Harsh Soni, Anwit Talawadekar, Vineet Raut,
<i>Dodge-a-thon</i>	Second	Parth Surve, Girish Maurya, Kamran Sayed, Prathamesh
<i>Import- Export</i>	First	Parth Surve, Girish Maurya
<i>Hunt-it-Down</i>	Second	Harshal Rao, Prathamesh Govind Bang
<i>It's a Maze-in</i>	First	Mahesh Garud
<i>Object Art</i>	Third	Saqib Dalnari
<i>Mono-acting</i>	First	Atharv Chavan
<i>Dance</i>	First	Manali Patil
	Second	Tirtha Tikam

	Third	Atharv Chavan
<i>Antakshari</i>	First	Rachna Mulaye, Shruti Satam
<i>Duet Singing</i>	First	Chinmay Lele
	Third	Sayali Kamble Rachna Mulaye Shruti Satam
<i>Elocution</i>	First	Priyanka Mayekar
<i>Mime</i>	Second	Tirtha Tikam
<i>Object- Painting</i>	First	Namrata Yogi
<i>Photography</i>	Second	Rohit Mahajan
	Consolation	Gauri Dongre
	Consolation	Madhav Chavan
<i>Ad Film</i>	Second	Malvika Rahate
<i>Lavani</i>	First	Manali Patil
	Third	Vedangi Satardekar
<i>Story-Writing (Comic)</i>	Second	Priyanka Mayekar
	Consolation	Asmita Kulkarni
<i>Story-telling</i>	Second	Priyanka Mayekar
	Third	Asmita Kulkarni
	Consolation	Atharv Chavan
<i>Singing</i>	Second	Sayali Kamble
<i>Painting</i>	First	Namrata Yogi
<i>Rangoli</i>	Second	Ankita Hedau
<i>Fashion Show</i>	Third	Rohini Naik, Kajal Mehrol, Anuja Patke, Anvit Talawdekar, Darshan Padaya, Shobhit Shetty, Anukriti Singh Sanika Khanwilkar, Aniket Surve, Riddhi Kambli Kanchi Harchekar
<i>Poetry</i>	Consolation	Janhavi Savardekar, Amruta Bhujbal, Sayali Khanolkar, Priyanka Salgaonkar, Mandar Divekar, Sahil Jadhav
<i>Maharashtra-Darshan</i>	Consolation	Tirtha Tikam, Sneha Kadam Vedangi Satardekar, Rhea D'souza Rutuja Khuspe, Pooja Shirke Chetali Pandekar, Namrata Bhoir, Nisha Chavan

2010-11 Achievements of the N.C.C. Unit (Girls)

- **Thal Sainik Camp:** 5 senior cadets attended First TSC selection camp in June 2010. JUO Akhila was selected till semi-final round for Malvankar Shooting selection held at the camp.
- Six cadets attended TSC camp held at Uran. Cdt. Deepali Chaugule won Second Prize in Essay Writing.
- Three cadets were selected for further camp in which SUO Pooja Soni was selected for pre-TSE and was the Field Signal Nominee at Pune.
- **Republic Day Camp:** Two cadets attended the camp held at Uran in October, 2010. Cdt. Megha Wagh won Gold medal in Cross Country and Silver medal in Dance. Cdt. Pooja Kadam was selected for further camps and was qualified for Pre-CAT.
- **ATC:** Four cadets attended ATC camp held in September 2010 at Uran. Cdt. Nutan Sawant performed Yoga and won the Gold medal. Seven cadets attended second ATC camp in January, 2011.
- **NIC Camp at Udaipur:** Two junior cadets attended this camp from 19th October to 30th December, 2010. Cdt. Megha Wagh and Cdt. Nutan Sawant won individual Gold medal in Kho-Kho. Cdt. Nutan Sawant performed Yoga and won Gold medal in talent show.

Achievements of the NCC Unit (Boys)

- **Republic Day Camp:** Seven cadets attended the RDC cum GSC (1) Camp held at JNPT, Uran.
- Cadet Sandesh Daptare bagged Silver Medal for anchoring. JUO Amey Bhojane was the RDC Camp Senior.
- Six cadets - JUO. Amey Bhojane, Cdt. Abhijit More, Cdt. Sandesh Daptare, Cdt. Bharat Thorat, Cdt. Krishna Yadav, Cdt. Dilip Makwana attended the prestigious pre-CAT RDC Camp held at Aurangabad, Maharashtra.
- JUO. Amey Bhojane, Cdt. Dilip Makwana, Cdt. Sandesh Daptare were selected for CAT - (1) Camp, Aurangabad, Maharashtra.
- Amey Bhojane was selected for RajpathContigent on 26th January 2011 Parade and for PM's Rally.
- **TSC Thal Sainik Camp:** CSM-Gaurav Lad, Cdt. Mohita Nair, Cdt. Sandesh Daptare attended the TSC Camp at Uran.
- **Special Camps: NIC (Chembur):** SUO Nitish Rele and CSM-Vijay Jawale attended the camp at Chembur, Maharashtra. CSM Vijay Jawale participated in guards of honour given to D.D.G. Brigadier P. C. Roy.
- **Shillong Trek:** CSM Gaurav Lad and CSM. Bhushan Bidye attended camp at Shillong, Meghalaya. CSM Bhushan Bidye bagged Silver Medal in Solo Dance. CSM Gaurav Lad and CSM Bhushan Bidye participated in group dance and group song representing culture of Maharashtra. The Directorate bagged Silver Medal in respective events. CSM. Bhushan Bidye was selected as the pilot in the camp.

- **Avhan Camp:** Five Cadets- CSM. Bhushan Bidye, CSM. Vijay Jawale, CDT. Mohit Nair, Cdt. Kunal Chavan, Cdt. Narayan Motirave were selected to attend the Avhan Camp held at Kalina Campus, Mumbai, Maharashtra. Cdt. Kunal Chavan was awarded as the best in Rapelling Event.
- **Trek Camp:** Seven cadets attended the one day Trek Camp at Karjat, Mumbai, Maharashtra - CSM. Bhushan Bidye, CSM. Gaurav Lad, CQMS. Yash Pathak, SGT. Kaustubh Thawkar, SGT. Tushar Jadhav, CSM. Vijay Jawale CSM. Gaurav Lad ranked third in completing the Trek.

Highest Sports Awards conferred by the Government of Maharashtra

Ms. Sae Shetye Shiv Chhatrapati Award
water-polo

<i>Ms. Puja Surve</i> Rhythmic Gymnastics	Shiv Chhatrapati Award Represented India at the Commonwealth Games, Delhi
<i>Anup Thakur</i> Mallakhamb	Shiv Chhatrapati Award

Sports Achievers 2010-2011

Tanuja Lele Apoorva Kokil Akshada Padhye Cricket (Women)
Prachi Bisht Julli Ballal Meghna Mistry Inter-Collegiate
Niyati Chaudhary Najuka Davane Hemangi Yerzal Gold
Prajakta Shivarvadker Chaitali Khanvilkar

<i>Taneisha Monteiro Shruti Ullal</i> <i>Soniya Jangam Aviya Dharve</i>	Basketball (Women) Inter-Collegiate Gold
<i>Pooja Patil</i>	Kabaddi (Women) All India Inter University Represented
<i>Hitesh Vairale</i>	Shooting (Men) Inter-Collegiate Gold
<i>Radhika Jadhav</i>	Tennis (Women) Inter-Collegiate Gold
<i>Pooja Surve Asmita Rajee</i>	Gymnastics (Women) All India Inter University Represented
<i>Prachi Phanshikar Anup Thakur MadhaviPatil</i>	Mallakhamb - All India Inter University Represented
<i>Pratik Golatkar Hrishikesh Rade</i> <i>Akshay Pujari Aniket Walve</i>	Softball (Men) Inter-Collegiate Gold

Sports Achievers 2011-2012

Tanuja Lele Pranali Gund Najuka Dawane Cricket (Women)
Julli Ballal Mugdha Joshi Rashika Yadav Inter-Collegiate Gold
Tanvi Bhuskute

<i>Ankita Jadav</i>	Tennis (Women) All India Inter University Tournament Represented
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<i>Aviya Dharve Soniya Jangam</i> <i>Shruti Ullal Taneisha Monteiro</i>	Basketball (Women) Inter-Collegiate Silver
<i>Mokshadha Hatankar Pradnya Ghadigaonkar</i> <i>Sulbha Vaze</i>	Kho-kho (Women) Inter-Collegiate Bronze
<i>Nutan Sawant</i>	Shooting(Women) Inter-Collegiate Gold
<i>Anagha Patil</i>	Badminton (Women) Inter-Collegiate Silver
<i>Ms. Asmita Raje</i>	Rhythmic Gymnastics (Women) All India Inter University Represented
<i>Madhavi Patil</i> <i>Anup Thakur</i>	Malkhamb (Women) All India Inter University Represented
<i>Dilip Makawana</i>	Artistic Gymnastic (Men) All India Inter University Represented
<i>Abhijit Jadav Akshay Pujare</i> <i>Siddhesh Parab</i>	Softball (Men) Inter-Collegiate Silver
<i>Pratik Golatkar Raj Golatlar</i> <i>Akshay Pujare Siddhesh Parab</i>	Baseball (Men) Inter-Collegiate Silver
<i>Anuja Khaladkar Nutan Savant Madhavi Patil</i>	Yoga(Women) Inter-Collegiate Gold

Sports Achievers 2012-2013

<i>Akshay Pujare Siddhesh Parab</i>	Softball(Men) Inter-Collegiate Gold
<i>Tanmay Sawant Raj Gawankar</i> <i>Omkar Bagal Ronak Jituri</i>	Baseball(Men) Inter-Collegiate Silver
<i>Aviya Dharve Soniya Jangam</i> <i>Shruti Ullal Taneisha Monteiro</i>	Basketball (Women) Inter-Collegiate Gold
<i>Mokshadha Hatankar Sulbha waje</i> <i>Kavita Golambade</i>	Kho-Kho (Women) Inter-Collegiate Silver
<i>Ankita Jadhav</i>	Tennis(Women) All India Inter University Represented
<i>Anuja Khaldkar Akshata Salvi</i>	Yoga (Women) Inter-Collegiate Silver
<i>Mitesh Tanwade</i>	Yoga (Men) All India Inter University Represented
<i>Tanvi Bhuskute Rashika Yadhav</i> <i>Bhakti Tamore</i>	Cricket(Women) Inter-Collegiate Gold
<i>Prathamesh Sonsurkar</i>	Shooting (Men) All India Inter University level Represented
<i>Pranesh Gharat</i>	Swimming (Men) All India Inter University Represented
<i>Vikrant Avati</i>	Cricket (Men)

	All India Inter University level Represented
<i>Nikita Wagh</i>	Archery (Women)
	All India Inter University level Represented
<i>Suraj Turte</i>	Gymnastic
	All India Inter University level Represented
<i>Anagha Patil</i>	Badminton (Women)
	All India Inter University level Represented

Sports Achievers 2013-14

<i>Nandan Parab Ronak Jituri Deepak Benbanshi</i>	Softball (Men)
	Inter-Collegiate Gold
<i>Siddhesh Parab Nandan Parab Abhijit Jadhav</i>	Baseball(Men)
	Inter-Collegiate Gold
<i>Aishwarya Chodankar Rutuja Kalbhor</i>	Basketball(Women)
	Inter-Collegiate Silver
<i>Poonam Navghare Pradnya Ghadigaonkar</i>	Kho-Kho(Women)
<i>Mokshada Hatankar Kavita Golambade</i>	Inter-Collegiate Gold
<i>Mrunal Kamble</i>	Yoga
<i>Anija Khaladkar</i>	All India Inter University Yoga Tournament Represented
<i>Mitesh Tanawde</i>	
<i>Vikrant Auti</i>	Cricket (Men) Inter-Collegiate Bronze
<i>Rashika Yadav</i>	Cricket(Women)
<i>Mugdha Joshi</i>	All India Inter University level Represented
<i>Prathamesh Sonsurkar</i>	Shooting (Men)
	All India Inter University level Represented
<i>Pranesh Gharat</i>	Swimming(Men)
	All India Inter University Represented
<i>Ms. Anagha Patil</i>	Badminton (Women)
	All India Inter University Represented
<i>Mr. Suraj Turate</i>	Mallakhamb (Men)
	All India Inter University Represented

Sports Achievers 2014-15

<i>Kavita Golambade Mokshada Hatankar</i>	Kho-Kho(Women)
<i>Mrunal Kamble Pradnya Ghadigonakar</i>	Inter-Collegiate
<i>Shubhangi Erande Poonam Navghare</i>	Gold
<i>Mr.Sujit Kushe</i>	Cross Country (Men)
	All India Inter University Represented
<i>Mr.Viplav Kuvale</i>	Badminton (Men)
<i>Mr. Siddhesh Mudbhatkal</i>	All India Inter University Badminton Represented
<i>Mr.Manprit Sandhu</i>	Handball(Men)
	All India Inter University Represented
<i>Ms.NikitaWagh</i>	Archery(Women)
	All India Inter University Represented
<i>Mr.Nilesh Rane Mr.Nandan Parab</i>	Baseball(Men)
<i>Mr.Siddhesh Parab Mr.Abhijit Jadhav</i>	Inter-Collegiate Gold
<i>Mr. Aakash Panjri</i>	

Mr. Durvesh Jugal Mr.Vinit Sakpal Mr. Nandan Parab Mr Ronak Jituri Mr Deepak Benbanshi	Softball(Men) Inter-Collegiate Gold
Ms. Rashika Yadav Ms.Mughada Joshi Mr.Vikrant Avti Mr.Sachin Yadav Mr. Pranesh Gharat	Cricket (Women)Inter-Collegiate 4 th Cricket(Men)Inter-Collegiate Bronze
	Swimming (Men) All India Inter University Represented

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The alumni of the College play an active role in the quality improvement through informal feedback from graduates and employers. The alumni and employers are invited to deliver lectures in the Departments to share their expertise and knowledge of the industry. The Alumni Meets at College and Departmental level provide opportunities for discussion and feedback from the alumni. They also contribute towards academic and infrastructural improvement; they have also provided financial assistance for such projects. Informal suggestions are also received from the well-wishers of the College who are professionals in different fields.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

The College magazine *Imprints* is published every year. It is a bilingual magazine with articles in Marathi and English. It contains the reports of the activities and achievements of the associations. It also provides platform for the literary contribution of students such as book reviews, articles, poems and short stories. Student editors are selected to assist in the work of collecting, editing and proofreading the data.

The Department of Physics published an in-house journal *PhysiRup* in February 2016. It contains the articles on various aspects of Physics written by students and faculty.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

- Yes. The College has a Students' Council formulated as per the norms specified by the University of Mumbai. Its composition is as below:
There are 26 student representatives who are nominated on merit basis. The students elect their General Secretary by casting a secret ballot. The Principal is the Chairperson of the Students' Council and he is assisted by nominees and the Programme Officers of the NCC

and NSS units of the college. The funding for the activities of the Students' Council is provided by the College. The Students' Council organises and ensures the smooth functioning of various events and activities in the College under the guidance of the Principal and faculty members.

- Since no directives for forming Students' Council were received from the University of Mumbai in 2014-2015 and 2015-2016, the College formed an informal Students' Committee to organise the events like College Annual Days, Cultural Programme and other programmes
- Apart from the Students' Council / Students' Committee, student committees are formed for organizing specific events in the College. For instance, a separate Organizing Committee had been formed for *Vihang* – the intercollegiate festival in 2013-2014.
- Contingent Leaders are appointed for the teams of students participating in intercollegiate events like Youth Festival.
- The associations for co-curricular and extra-curricular activities have student secretaries appointed by the respective associations.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The enthusiastic participation of students in all the activities of the College is evident from their inclusion as members of the following academic and administrative committees:

- Student editors are appointed for the Magazine Committee which publishes *Imprints*, the annual College magazine.
- Student secretaries are appointed by each departmental association to organise and manage the events.
- In 2015-2016, two student representatives were appointed as members of IQAC.
- Various non-statutory committees appointed by the College have student representatives as members.
- Student leaders are appointed to organize and coordinate various events, festivals conducted by the Departments.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution?

The alumni of the College are actively involved in the curricular and co-curricular activities of the College. Though a formal alumni association has not been formed, the alumni remain in constant contact with their departments. This is made possible through e-mail groups and

effective use of social media. Alumni meets are held at the College as well as departmental levels. Alumni who occupy distinguished positions in their fields are invited to deliver talks. They share their experience and expertise with the current students and guide them in their choice of careers. The alumni contribute to the development of the College through financial contribution and donation of books.

The retired faculty members of the College have remained associated with the College through their research projects and guidance of research scholars. Prof. Madhavi Indap (retired Head, Department of Zoology) has been awarded the prestigious title of Professor Emeritus. She is currently guiding various research projects in the Central Research Laboratory of the College.

Some retired faculty members have instituted endowment prizes to encourage and reward the students' achievements in academics, sports and cultural activities. The College maintains cordial relations with former faculty members by inviting them to attend the College Annual Scholars' Day and departmental programmes.



Criterion 6

Governance and Leadership

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

The vision and mission of the College have been mentioned in 1.1

The College renders service in the field of higher education; its core values define and inspire the vision for the future as follows:

Objectives:

- Continuous efforts to impart to learners knowledge and skills that are relevant to the demands of the changing times.
- Encouragement to the faculty to adopt innovative methods of teaching that will cater to the needs of learners at various levels of study.
- Regard learners as the focal point of all activities and efforts and adopt policies that effectively meet their needs.
- Impart skills which can translate into practical applications in various spheres of life - personal, professional and national.
- Support curricular training with co-curricular and extra-curricular activities aimed at building the overall personality of the learners.
- Provide learner-centric academic and personal enrichment opportunities.
- Empowerment to pursue their goals.
- Guide learners towards self-actualization.
- Enabling critical thinking through freedom of thought and expression.
- Adopting an integrative and inclusive approach towards various disciplines.
- Nurturing talent and creativity.
- Motivating students as well as faculty members to take up research projects.
- Creating a mindset for inquiry.
- Inculcating analytical attitude and scientific temperament.
- Identifying new means of resource generation.
- Optimal deployment of resources.
- Development of infrastructural facilities to compete with leading institutions.

- Participative decision-making process that is effectively communicated to all the stake-holders.
- Transparency in functioning.
- Constant assessment and upgradation of processes to ensure maximum efficiency.
- Development of synergistic alliances with well-known academic, research and consulting institutions.
- Creating an interface with the industry to ensure that the skills imparted to the learners are in consonance with the needs of the industry.
- Sensitizing learners about social, ecological, economic and political issues.
- Endeavoring to find solutions that will benefit society as a whole.
- Positive role modeling in order to create responsible citizens.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

In accordance with the democratic outlook of the administration, the perspective institutional plan is created in consultation with the various stakeholders. The plan is shaped by envisaging future local and global needs. The introduction of new job-oriented courses, development of infrastructure, teaching-learning and other related activities forms the base for the formulation of the institutional plans. Staff and students participate at all stages from planning to execution.

While formulating the plan, teachers take into account feedback obtained through constant interaction with students. The perspective plans are then deliberated in the Local Managing Committee, Standing Committee of the College, Board of Life Members and recommended to the Academic Council, Finance Council and finally to the Senate of Modern Education Society for approval before being executed. Regular meetings are conducted by the parent body, Modern Education Society to review the progress of the College.

The Principal supervises the implementation of the plan with the support of two Vice-Principals, Heads / Senior teachers of the Departments, Librarian, Coordinators of Self-Financed Courses and Conveners of various statutory and non-statutory committees. Decisions are taken and work is allotted after meetings with the Heads of the departments who represent the members of their department. The Principal supervises the office administration through the Registrar, who is assisted by the Superintendent, Accountant, Head Clerk, Senior and Junior Clerks.

There is regular interaction among the staff members and the Management ensuring the effective implementation of the plan and the quality policy.

6.1.3 What is the involvement of the leadership in ensuring:

- *the policy statements and action plans for fulfillment of the stated mission*
- *formulation of action plans for all operations and incorporation of the same into the institutional strategic plan*
- *Interaction with stakeholders*
- *Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders*
- *Reinforcing the culture of excellence*
- *Championing organizational change*

The policy statements and action plans for fulfillment of the stated mission:

- The policy statements and action plans are formulated at the beginning of the academic year through discussions among the Principal, Vice-Principals, IQAC members and Heads of Departments. The action plans are reviewed at the end of the academic year.
- A seminar on *Goals and Action Plans* was conducted on 20th June, 2014 and departmental presentations of SWOC Analysis were held on 21st June 2014. Academic Audit was carried out on 27th February, 2015.
- There is active involvement of students' bodies like NCC, NSS, Students' Council and various associations in all programmes of the College.

Formulation of action plans:

- The action plan is prepared by each department and submitted to the Principal at the beginning of the academic year.
- Various statutory committees such as Women's Development Cell, Anti-Ragging Committee and non-statutory committees such as Cleanliness Committee, Canteen committee are constituted to ensure the smooth functioning of the college.
- The academic calendar is prepared including the dates of examination and co-curricular activities.
- Result analysis is carried out after every semester-end examination.

Interaction with stakeholders:

- Regular interaction with teaching and non-teaching staff is maintained through formal and informal meetings.
- The College has an Open Door Policy whereby all stakeholders can meet the Principal and Vice-Principals without prior appointment.
- Internal communication like notices, reports are exchanged through the college email (name.surname@ruparel.edu).
- Parents' Meetings are conducted by the College as well as the departments to inform them about the examination pattern and the progress of the students.
- There is regular interaction with the Alumni by the departments and the College.

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders:

The policies are planned keeping in mind the needs and suggestions given by the various stakeholders. For instance:

- MCom programme was introduced as per the feedback received from students and parents.
- Additional division for BCom programme was introduced due to increasing demand from students. The College has also applied for additional divisions in BSc and MSc (IT).
- Requirements of the teachers regarding books, journals and equipments as per the revised syllabi are considered while making the purchases.
- Changes are made in the allocation of classrooms considering the needs of physically disabled students.

Reinforcing the culture of excellence:

- The College promotes the culture of excellence through various initiatives like promoting research under the Avishkar scheme as well as by funding small research projects by faculty and students.
- Students who excel in academics, sports or cultural activities are honoured during the Annual Scholars' Day and Gymkhana Day celebrations.

Championing organizational change:

- The changes at the organizational level are visualized and implemented by the Principal in consultation with the staff members e.g. introduction of Teacher's Diary, computer programs for managing data related to attendance and analysis of exam results.
- Avishkar committee was formulated to encourage research orientation among staff and students.
- The administration process is decentralised facilitating the departments to independently conduct their routine work.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

- Feedback about the functioning of the College is obtained from students as well as teachers. Students give detailed anonymous feedback about their teachers. The scores and suggestions obtained are communicated to the individual teachers by the Principal.
- A complaint/ suggestion register has been maintained in the College Office for students and staff to convey their problems /difficulties and suggestions to the Management. Complaint / Suggestion boxes have also been installed at different locations in the College.
- For the past two years, feedback about the Principal has been obtained from the teaching and support staff.
- Feedback about departmental functioning is given after the presentation of SWOC analysis by each department.
- In 2014, external experts were invited to provide feedback about SWOC analysis presented by each department.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The Principal himself is a Life Member of the Modern Education Society, Pune which was established in 1932 for the service of education in a missionary manner. As a Life member, his acceptance of the responsibility of the College involves committed participation and prioritizing this responsibility over individual benefit. He is the custodian of the College and represents the College in the Management. He considers every teaching and non-teaching

staff member as a part of the College family and follows the tradition of being a ‘gentleman administrator’ - a trademark of the Modern Education Society.

He works on the principles of delegation and decentralization of responsibilities and permits the Heads / Senior Teachers of the Departments, Librarian, Coordinators, Conveners to work independently. He firmly protects the stakes of the College and liaises with the stakeholders. He plays an important role in planning the academic calendar and encourages the faculty for improvement in academic efficiency, motivates them to enhance their qualifications, to pursue research projects and to participate in national and international academic events. He guides the administrative staff for proper execution of administrative responsibilities to the satisfaction of the stakeholders. He ensures control of expenditure and appropriate utilization of fees received. He has contributed to the University recruitment process as Vice Chancellor’s Nominee. He creates opportunities for the faculty and students to interact with eminent academicians, professionals, social workers, literary figures and artists. He initiates team-spirit and sense of dedication in staff and students by having an informal relationship with them resulting into empowerment and heightened levels of involvement. In his capacity as planner, motivator, supervisor, mentor, facilitator, and evaluator, he helps students become responsible citizens. He serves as a role model for the staff as well as the students. He constantly endeavours to inculcate in them values like quest for peace, adherence to truth and right conduct, non-violence, compassion, tolerance, and respect for culture and traditions.

6.1.6 How does the college groom leadership at various levels?

The different programmes and initiatives of the College are co-ordinated by the staff and students under the guidance of the Principal. The Vice-Principals, Chairpersons of Committees, Programme Officers, Chairpersons of associations ensure the effective organization of programmes and events. Student leaders are appointed for organization of festivals and cultural activities.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The administrative work is highly decentralised to make it efficient and effective.

The Principal monitors all the activities in the College with the support of Registrar, two Vice Principals, Heads / Senior teachers of the Departments, Librarian, Coordinators of Self-Financed Courses and Conveners of various statutory and non-statutory committees. Decisions are taken and work is allotted after meetings with the Heads of the departments who represent the members of their department.

There is regular interaction among the staff members and the Management and the open channels of communication lead to excellent collaboration and cooperation.

The Principal supervises the office administration through the Registrar, who is assisted by the Superintendent, Accountant, Head Clerk, Senior and Junior Clerks. Adequate additional non-teaching staff is appointed to handle the work of the self-financed courses or the existing non-teaching staff is given extra remuneration for this additional work.

6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management.

Yes. The College is run by a Teacher-managed Society and thus encourages participative management at different levels. Local Managing Committee has been formed with representatives of teaching and non-teaching staff. It promotes healthy communication between the faculty and the Management. The departments are empowered to function independently as per the guidelines given by the Principal. The various statutory and non-statutory committees look after different activities and make suitable recommendations to the Management. The Students’ Council ensures that students play a positive and constructive role in organizing various activities in the College. Since no directives were received from the University of Mumbai regarding formation of Students’ Council since 2013-2014 onwards, a Students’ Committee is formed at College level to facilitate the participation of students in College programmes. The Staff Academy undertakes various initiatives like health check-ups and cultural programmes for teachers.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The quality policy of the College has been clearly defined in its Mission, Vision and Core Values. All the academic, co-curricular and extra-curricular activities reflect the tradition of excellence which is the hallmark of the College.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, the college does have a perspective plan which is formulated with a focus on the following aspects:

- Encouraging students to learn beyond the syllabus
- Providing soft skills training to the students

- Promoting research by teachers and students
- Upgradation of infrastructure
- Continuing the eco-friendly initiatives on the Campus
- Strengthening the alumni network

6.2.3 Describe the internal organizational structure and decision making processes.

The College administration has an organizational structure of advisory, executive and supervisory bodies for its effective functioning as stated below:

The College established on 15th June, 1952 is managed by the Modern Education Society, Pune which is a teacher-managed Society, founded on 15th February, 1932. The Society manages Nowrosjee Wadia College of Arts and Science, Ness Wadia College of Commerce, Cusrow Wadia Institute of Technology, Neville Wadia Institute of Management Studies and Research, and MES College of Engineering in Pune and New Law College and D.G. Ruparel College in Mumbai. The composition of the Society is as follows:

- *The General Body* comprises of all Life members, retired Life members along with Fellows, Patrons and Benefactors of the Society. It meets every three years and elects the President and Vice Presidents for the triennium. Life members are selected serving teachers of the various institutions, whereas Fellows, Patrons and Benefactors are eminent academicians, industrialists, businessmen.
- *The Senate* comprises of the President, Vice Presidents, Benefactors, the Dean of the Academic Council, the Controller of the Finance Council, all Life Members of the Society and as many persons elected by the Fellows and Patrons of the Society from among themselves as are the Life members. The Senate meets at least twice a year and all decisions taken by the Board of Life members, Academic Council and Finance Council are required to be approved by the Senate.
- *The Academic Council* comprises of five Life members and six representatives of the Fellows and Patrons of the Senate. The Chairperson elect is called the Dean of Academic Council. The Council meets at least four times a year and decisions regarding academic programmes in the various institutions of the Society are taken in its meetings and recommended to the Senate for approval.
- *The Finance Council* comprises of four Life members and five representatives of the Fellows and Patrons of the Senate. The Chairperson elect is called the Controller of Finance Council. The Council meets at least four times a year and decisions regarding finance in the various institutions of the Society are taken in its meetings and recommended to the Senate for approval.

- *The Board of Life Members* is a body of select teachers enrolled as Life members from all its allied educational institutions. It monitors and executes all academic and financial policies, infrastructure development, and faculty recruitment, performance evaluation of teaching and non-teaching staff, research and extension activities, linkages and examinations in its various institutions. The Board meets at least once a month and all decisions taken are recommended to the Academic and Finance Council for approval which in turn recommends them to the Senate for final approval.
- *The Standing Committee* of the College appointed as per the By-Laws of the Society comprises of six Life members with the Principal as its Convener. It meets at least once a month, generally before the scheduled meeting of the Board of Life members. Decisions regarding various aspects mentioned in the previous paragraph are taken and recommended to the Board of Life members for approval.
- *The Trustees* of the Society are appointed by the Senate and are the custodians of the immovable properties and investments of the Society.

The Senate is the apex body where all academic and financial decisions taken by the Standing Committee, Board of Life members, the Academic and Finance Council are approved. The Board of Life Members authorises the Principal to implement its policies. The Principal is supported by two Vice Principals, Heads/Senior teachers of the Departments, Librarian, Coordinators of self-financing courses, and conveners of various statutory and non-statutory committees. They conduct activities in due consultation with their colleagues. Committees and bodies are formed within the College to fulfill specific duties and requirements. The Convener of each of these committees forms a link between the committee, the Principal, the teaching and non-teaching staff and the Management.

The following are the Principal, Vice Principals, Heads / Senior Teachers / Coordinators of various departments:

Principal: Dr. Tushar Desai

Vice Principals: Dr. Dilip Maske and Dr. Neeta Tatke

Heads/Senior teachers/Coordinators of the Departments:

Heads of the Departments:	
Faculty of Arts	<i>Economics:</i> Dr. Prakash Salvi
	<i>English :</i> Ms. Gayatri Gadgil
	<i>Marathi :</i> Ms. Vaishali Jawlekar
	<i>Philosophy :</i> Dr. Anupama Mujumdar
	<i>Psychology :</i> Dr. Nandini Diwan

Faculty of Science	<i>Botany :</i>	Dr. Rajesh Jadhav (in-charge Head)
	<i>Chemistry :</i>	Ms. Apurva Patkar
	<i>Mathematics:</i>	Ms. Jayshree Mehta
	<i>Physics :</i>	Ms. Vidya Patil
	<i>Statistics :</i>	Ms. Vrinda Kanitkar
	<i>Zoology :</i>	Dr. Meenakshi Sundaresan

Faculty of Commerce	<i>Accountancy:</i>	Mr. Nitin Kulkarni (retd)
	<i>Commerce</i>	Mr. Ravindra Netawate

Senior Teachers of the Departments:

<i>Geography:</i>	<i>Political Science :</i>
Ms. Deepali Bhide	Mr. Avinash Kolhe
<i>History:</i>	<i>Librarian:</i>
Mr. Arvind Ganveer	Dr. Pradip Karnik

Coordinators of Self-financed Courses :

<i>Computer Science and Information Technology :</i>	<i>Bachelor of Management Studies:</i>
Mr. Mandar Bhawe	Dr. Neeta Tatke

The various statutory and non-statutory committees are as follows:

Statutory Committees:

- Local Managing or Advisory Committee
- Admission Committee
- Examination Committee
- Unfair Means Inquiry Committee
- Library Committee
- Internal Complaint Committee for Prevention of Sexual Harassment at the Workplace
- Purchase Committee
- Women's Development Cell
- Internal Quality Assurance Cell
- Students' Council
- Attendance Committee
- Anti-Ragging Committee
- Special Cell Advisory Committee

Non Statutory Committees:

- Students' Welfare Committee
- Placement Cell
- Guidance and Counselling Cell
- Special Cell Advisory Committee
- Students' Grievance Redressal Committee
- Book Bank Committee
- Time Table Committee
- Research Promotion Committee
- UGC Grants Committee
- Scholars' Prize Distribution Committee
- Gymkhana Prize Distribution Committee
- Gymkhana Managing Committee
- Annual Day Programme Organizing Committee
- College Magazine Committee
- Office Establishment Assistance Committee
- Discipline Committee
- Canteen Committee
- Staff Academy
- Cleanliness Committee
- Alumni Co-ordination Committee

The College encourages its students to organise and participate in co-curricular and extra-curricular activities under the aegis of various associations which are listed below:

AiMS	Art to Art	Book Review Club
CASSO	Chemarc	Chitravedha
DLLE Unit	Economica	Genesis
History Association	Maanas	Marathi Vangmay Mandal
NCC (Boys and Girls)	NSS	Natyavibhag
Nupur	Open Forum	Photography
Polis	RUPELA	Science Association
Swara Sadhana	Tattvadarshan	

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

Teaching and Learning:

- Student-centric learning is ensured through interactive, collaborative and independent learning methodologies.
- The College provides the necessary infrastructure for effective teaching-learning.
- Teachers are encouraged to constantly upgrade their knowledge and skills by attending workshops and training programmes.
- Regular and systematic feedback about teachers is collected from students.

- Various talks and programmes organized by the departments and various associations help the students to learn beyond the syllabi.

Research and Development:

The College focuses on research as an important aspect of academic excellence. The College has a well-equipped Central Research Laboratory, excellent Library with several books, periodicals, journals and sophisticated computer laboratories. All these facilities are provided free of charge to the students as well as the teachers for conducting research. The teachers are encouraged to present and publish research papers. The Research Cell of the College encourages research activities, particularly among students. The Avishkar Committee guides the students for participation in the Avishkar Research Convention of the University of Mumbai. The College extends full support and help for research related activities.

Community engagement:

The College has NSS, NCC and DLLE units which are actively involved in community projects.

NSS Activities

- *Umed* – talent showcase for senior citizens and disabled persons provides a platform for reaching out to these groups.
- Blood Donation Camps
- Health awareness programmes – creating awareness about AIDS, dengue and malaria in the surrounding areas.
- Teaching the students from nearby BMC schools.
- Adoption of a tribal village Karav near Vangani where various community initiatives are organised.
- The Science Association outreach programme popularises science among students of nearby BMC schools.
- Department of Zoology provided charts about science concepts to students of City of Los Angeles BMC School.
- The DLLE Unit conducts surveys and spreads social awareness through street plays. These are some of the activities through which the College positively impacts the community. Some teachers are associated with NGOs and contribute to community work.

Human resource management:

The College teachers and non-teaching staff share a cordial relationship and are oriented towards the progress of the College. The Open Door policy results in transparent and

immediate communication between the Management and the staff. The democratic approach of the Principal and Management ensures participation of all stakeholders in decision making and implementation of policies. Responsibilities are assigned to teachers keeping in mind their abilities and interests. The skills of non-teaching staff are identified and deployed to improve the functioning of the College.

Industry interaction:

The students interact with prominent personalities from the industry who visit the College. The field visits organised by various departments help in broadening the vision of the students.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

- The College has a formal system of taking feedback from the students about the teaching –learning process. Results are analysed in detail and information is given to the respective teachers.
- For routine issues, a suggestion / complaint register is maintained in the College Office and suggestion boxes are kept at various places in the College.
- The alumni of the College regularly visit the departments. All this helps in giving adequate feedback about the functioning of the College to the Principal.
- This information is put forth before the Standing Committee of the College and later discussed in the meeting of Board Members held every month.
- The meetings with the members of the Local Managing Committee also help in promoting healthy communication between the faculty and the Management.
- The functioning of the College, its policies, various rules of the University are communicated through notice boards, prospectus and in the meetings with the students and the parents.
- The College has a Management Information System - Vridhhi.
- The College Magazine *Imprints* provides information about the activities and achievements of the College to all stakeholders. This information is also uploaded on the College website www.ruparel.edu.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The College has several statutory and non-statutory committees of teachers and staff to ensure smooth functioning of administrative, academic, cultural and other activities. The IQAC encourages the participation of teachers in a variety of academic activities.

Since 2013, the Management conducts team-building games and sports for the non-teaching staff during the Christmas break. The democratic approach of the management, conducive and open communication among all helps in efficient and effective management of the College.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

For any financial expenses, staff appointments, leaves and regular working policies resolutions are first presented to the standing committee. These resolutions are then passed in the Board meeting and subsequently presented before Academic and Finance Council. Detailed minutes of all meetings are maintained at the respective level. Some examples of resolutions and action taken are as follows:

Standing Committee Meeting (Friday, 18th March 2016)

Letter from University of Mumbai, Affiliation section ICC/2015-2016/23 dated 1st March 2016 regarding immediate installation of Sanitary Napkin vending machine in Girls Common room be noted, and Principal be instructed to purchase the Sanitary Napkin vending machine and install it in Girls Common Room.

A Sanitary Napkin vending machine as well as a disposal unit for the same have been purchased and installed in Girls' Common Room in May 2016.

Standing Committee Meeting (Thursday 2nd July 2015)

Request received from Ms. Yogita P. Deshmukh an FYBSc (S-3061) Computer Science student belonging to ST category, has not filled up the Freeship/Scholarship form and whose father expired recently, asking for concession in fees amounting to Rs. 12,870/- for academic year 2014-2015 be accepted and the same amount be transferred from student welfare account of non-grant course to fee account.

The request was accepted.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes. The College is planning to seek autonomy after the third cycle of accreditation is completed.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The College has formulated Grievance Redressal Committees for staff and students. The other committees such as Anti-ragging, Special Cell Advisory and the Women's Development Cell maintain a healthy and ragging-free environment in the campus. The CCTV cameras at strategic locations have promoted safe and secure atmosphere on the campus. There have been no complaints except one made to the Grievance Redressal Committee by one faculty member in the year 2015-2016. As per the procedure meetings were taken with concerned parties and the matter was resolved.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

There have been no court cases filed by or against the institution in the last four years.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Feedback about institutional performance is obtained informally. The current students and the alumni regularly interact with the Principal and the departments. Their suggestions are considered for improving the functioning of the College.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

- The College regularly deputed the teachers for Refresher and Orientation courses, workshops related to syllabi and other areas in their subjects, short and long term training programmes, conferences, workshops and seminars, not only in Mumbai, but also outstation. Three of our teachers have attended training programmes in Israel. The College organises training programmes, talks by experts for the teachers.
- A three-week Refresher Course titled *Use of ICT in Science Teaching* was conducted in the College on behalf of UGC Human Resource Development Centre, University of Mumbai. 38 teachers including three teachers from the College participated in the course.
- The SWOC analysis and Academic Audit conducted in College, training sessions organised by the IQAC focus on the challenges of higher education and preparing teachers for the same.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

The teachers are encouraged to participate in orientation, refresher and short term courses, conferences, seminars and workshops, to pursue PhD, postdoctoral research and research projects. Duty leaves are granted for the same. Two teachers have availed UGC Faculty Development Programme in order to complete their doctoral research.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The performance appraisal of the staff is carried out through the following methods:

- Self-appraisal forms submitted by the teachers at the end of every academic year.
- Confidential Report (CR) for every teacher is prepared.
- Teachers' Diary in which they record the details of all the information about the duties they perform.
- Feedback obtained from students about teachers.

- The yearly reports of the departments, associations and various committees.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The self appraisal reports are reviewed by the Heads of the Departments and the Principal. Teachers are given individual feedback if required. General trends are discussed for improvement in the meetings with the teachers.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- In case of delay from the Government, the salary of entire non-teaching staff is disbursed by the Management. The teachers also get advance on salary, subject to application by them.
- Teaching and non-teaching – employees appointed by the Management are also given the benefit of contributory provident fund.
- The teachers on ad hoc or contractual appointments can avail the same leave and vacation benefits as the permanent staff.
- The services of the counselling center *Suman* are available free of cost to the teaching and non-teaching staff and their children.
- The faculty common room has a television for viewing news channels. National and local, English and Marathi newspapers are made available daily. The canteen counter is equipped with a microwave oven which can be used by all employees.
- Free medical camps are conducted for teachers and non-teaching staff through Staff Academy.
- A Cooperative Credit society for teaching and non-teaching staff members has been established in 2007 and has been functioning successfully since then. Currently 146 staff are members of the Cooperative Credit society. The average dividend at 11.3 % has been declared during last five years. Personal loans up to Five Lakhs (₹ 5,00,000) and Emergency loan up to Rs. 25,000/- at lower than market interest rates have been disbursed to the members.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The College provides excellent infrastructure which ensures professional growth of the employees. The academic and other talents receive support and encouragement from the Management. The facilities, autonomy and flexibility provided by the College have helped in retaining the permanent as well as the ad-hoc teachers.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The Annual Budget of the College is meticulously prepared and is presented in the meeting of Board of Life members, on 15th February every year. It is later passed by the Financial Council of the Society. The budget is also presented to the Local Managing Committee (LMC).

The Principal informs about the budgetary provisions made for each department in the meeting of the Heads. The Departments submit the accounts as per the stipulated dates. The College submits information about any purchases made and money spent in the meeting of Board of Life members held every month. Any out of budget expense has to be first approved by Board of Life members and Finance Council. All the financial transactions are closely monitored by the Principal, Vice-Principals and the Management.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Internal and external audit is carried out by external reputed agencies every year. The audited statements are presented to the Senate and approved by them.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

Audited income and expenditure statement for four years – enclosed.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Additional funding is secured from the following sources:

- UGC grant of ₹ 1,00,60,000 under the XI plan of the UGC, with additional grant of ₹ 5 lakhs for sports infrastructure development and ₹ 25 lakhs for infrastructure development.
- First level DST- FIST grant of ₹ 90 lakhs, which was used to develop Central Research Laboratory and other research facilities.
- Donations from well-wishers and alumni – In 2015, the Department of Psychology was renovated using the donations of ₹ 5,80,254/- received from the alumni.
- Providing the classrooms on hire to outside agencies like UPSC, MPSC, Banking Services for conducting examinations.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes, The College IQAC was established in 2004 and is actively maintaining the quality and adopting quality measures.

IQAC is instrumental in implementing the various quality policies. Regular meetings of the IQAC are held with the Heads of Departments, convenors of committees and teachers. IQAC determines the quality bench marks to be implemented in various fields like admission, examination, research activities, extracurricular and co-curricular activities among the faculty and students. Administrative and academic activities of the institution are planned and evaluated at the beginning of each academic year. When the college reopens after vacation IQAC members in the presence of the Principal convey to the departments, the strategies to be adopted for the implementation of Total Quality Management. Decisions regarding the regular activities are taken by the Principal, Heads of Departments and IQAC.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

The following decisions were approved and implemented by the IQAC -

Academic:

- introduction of new programme - MCom in 2013-14.
- the College has applied for additional divisions for BSc and MSc (IT) and MCom in the year 2015-16.
- introduction of Teacher's Diary in 2014-15.
- short term value-added certificate courses by departments –Please refer to the list in 1.1.7
- some departments have mentoring system; this activity will be implemented by more departments in the year 2016-2017.
- introduction of MOODLE learning management system for conducting internal test for Foundation Course and other subjects from the year 2012-2013.
- academic audit by external experts – Academic Audit was conducted on 27th February 2015.

Infrastructure:

- Separate rooms were allotted to IQAC, DLLE Unit and Women's Development Cell. The Department of Economics, Marathi, Commerce, Accountancy and Philosophy were also allotted separate rooms.
- Development of Research Facility - Central Research Laboratory was established.

Environment Initiatives:

- Recycling of organic waste through vermicomposting was initiated with the help of Stree Mukti Sanghatana and is being solely managed by the College.
- Installation of solar panels- Department of Physics has installed three solar panels outside their department and the electricity generated by these solar panels is used by the department and for the notice boards in the foyer. The College plans to install more such panels.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes. The IQAC has three external members:

- Dr. Shobhana Vasudevan, Principal of R.A. Podar College
- Dr. Aniruddha Pandit, Institute of Chemical Technology

- Mr. Umesh Kulkarni, CEO Fine Envirotech Engineers (FEE).

All the experts contribute their specialized knowledge to the quality improvement, academic projects, infrastructure and other development projects.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The students and alumni who are members of IQAC give suggestions and feedback regarding various activities related to students, placements and development.

e. How does the IQAC communicate with and engage staff from different constituents of the institution?

IQAC communicates with the staff through the notice boards and email. The IQAC conducts workshops and programmes for the teaching and the non-teaching staff.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes. Academic and administrative quality is maintained through proper planning, providing a conducive environment and various infrastructural facilities to enhance the performance of the students and the teachers. The feedback obtained from the students, teachers and the alumni is constructively used for the holistic development of the students and the College.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Yes. The IQAC conducts workshops every year on academic, ICT and health-related topics for the teaching as well as the non-teaching staff. The teachers are also encouraged to attend programmes on quality management, to enhance their skills. Processes like SWOC analysis, Academic Audit help in maintaining and improving the quality.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

External Academic Audit was carried out on 27th February 2015. The IQAC monitored the effective implementation of the suggestions given by the expert to the teachers and the departments. The SWOC analysis of every department was presented in front of two external experts and feedback was obtained for quality improvement.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The College rigorously follows the rules and regulations of the Government, University, UGC and DST. The mandatory processes are implemented.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The following mechanisms are in place to continuously review the teaching-learning processes:

- Departmental meetings, meeting of the staff members with the Principal
- Lesson Plans made by the teachers and Teachers' Diary
- Feedback from the students about teachers

These methods have increased the participation of teachers in various activities, created awareness on variety of teaching methodologies and improved their research orientation.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The prospectus, the magazine *Imprints* and the website of the College help in communicating the policies, mechanisms and the outcomes to all stakeholders. Meetings of the parents with the Principal and with the departments help in giving information about students' progress. Text messages through SMS and e-mails are also used.

Best Practices

CRITERION VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

The College has lush green lawns with a large number of trees, and consistent efforts are made to maintain a green, clean and eco-friendly campus. The College has planned to conduct a Green Audit, and the existing efforts reflect the environmental commitment of the College towards better energy efficiency and economising resources.

The College has been the first in the University of Mumbai to implement rain-water harvesting since 2008. Solar Panels have been installed on the Hostel and Vermi-composting for organic waste is carried out.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

Energy conservation

- Replacement of the tube-lights with LED lights.
- Regular planting of trees and maintenance of lawns.
- Installation of walk-in sensors, which prevent unnecessary use of electricity in the washrooms in the New Building.
- Attendants deployed on every floor have been instructed to switch off lights and fans when not required.

Use of renewable energy

- Installation of solar panels in the Boys' Hostel since 2000.
- The Department of Physics has installed three solar panels which provide electricity supply for experiments and for the notice boards in the foyer.
- Solar charging point for cell phones of the faculty and support staff in the faculty room.

Water harvesting:

- The College has a rain-water harvesting project with a capacity of 70,000 litres. The water from the project is used to maintain the huge 10 acre campus and is also used in the washrooms.

Check dam construction: N.A.

Efforts for Carbon neutrality:

- Re-using blank sides of printed papers wherever possible.
- Assuring unpolluted environment by nurturing the greenery on the campus.

Plantation:

- There are about 450 numbered trees and many plants of different varieties planted in the campus
- According to ancient Indian astrology, Nakshatra trees have been identified for each of the 27 constellations. These trees provide ayurvedic medicinal benefits. A total of 15 Nakshatra trees have been planted in the College campus.

Hazardous waste management:

- Proper care is taken for safe disposal of toxic chemicals, biological waste, cultured microorganisms, broken glass and sharp implements.
- Implements used in these processes are autoclaved before reuse or disposal.

E-waste management:

- Conducting periodic inventory management, volume reduction and re-utilisation.

Biodiversity on the campus:

- Maintenance of Botanical / Butterfly garden.
- Installation of bird feeders and sparrow shelters.
- Survey of birds on the campus by Department of Zoology.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

In order to cope with the changing demands of the students and the industry, the College strives towards constant upgradation of teaching-learning, infrastructure and administrative processes. Following are some of the innovations introduced during the last four years:

- Establishment of Central Research Laboratory for interdisciplinary research.
- Formation of Research Committee to encourage more students and faculty members to pursue research.
- Introduction of Unique Identity Number (UIN) for first year students from 2015-2016 with the aim of better management of students data for administrative and examination purposes.
- Workshops on Skill Development for the students of Management Studies.
- Conducting regular Parents' Meetings to make the parents aware of the CBSGS.
- Space allotted to departments of Arts faculty along with facilities like desktop

computers and printers as per the recommendations of the previous NAAC Peer Team.

- Increase in the use of ICT tools for teaching-learning
- Use of MOODLE and RF Response Cards for conducting internal tests and for collecting student feedback about teachers.
- Upgradation of computers and technology
- Installation of Smart Board in the New Building
- Setting up of weather monitoring instruments on the terrace of Science Building.
- Security surveillance of the Campus through CCTV cameras.
- Use of Clickers/OMR Sheets for class test.
- Conducting several internal exams on MOODLE
- Conducting one month *Proficiency Course in English*.
- Vermi-composting pit has been created.

7.3 Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no.98, which have contributed to the achievement of the Institutional Objectives and / or contributed to the Quality improvement of the core activities of the college.

I) Best Practice

Title: *Nurturing the Environment*

Goal: *“We do not inherit the earth from our ancestors; we borrow it from our children”* - Native Proverb.

Encapsulating the essence of this proverb, the College has introduced a number of initiatives for conserving energy and economising resources like water, electricity. The college aims to build environmental awareness among the students thereby shaping responsible citizens of the future.

Context: The College has a large green campus located at the heart of the city. It provides the scope for implementing different measures to conserve the environment. There is a need to sensitize students about living in harmony with nature. The College attempts to optimize the use of precious resources like water and electricity.

The Practice: Systematic planning and continuous efforts were made to implement the green measures on the campus. Financial and human resources were allocated accordingly. Wherever possible, recycled materials were used for these projects.

Nurturing the Environment is implemented through the following methods:

- rain water harvesting for continuous water supply to maintain green campus and for washrooms
- solar panels installation to minimize consumption of electricity
- replacement of tube lights with LED lights
- organic waste management through Vermi-composting
- Use of Solar power for charging of cell phones in the faculty common room
- Reuse of paver blocks discarded by Municipal Corporation to develop the amphitheatre, activity area, open air canteen, area near the faculty common room, annex building, bordering of garden space near Arts and Science building, beautification of lawns.
- Bird feeders and sparrow shelters have been installed and water points created.
- Survey of flora and fauna to create biodiversity awareness.

Evidence for success: The electricity bill has reduced to a large extent. The entire campus remains green even in summer and no water scarcity is experienced throughout the year. The compost generated through vermiculture is utilized as manure for the plants in the campus. The implementation of eco-friendly measures like rain water harvesting, solar panels, solid waste recycling, sparrow shelters have turned our College campus into a rich and beautiful oasis in the midst of the urban concrete jungle.

Problems encountered and resources required: The large campus area of 10 acres presents a challenge in terms of development and continuous maintenance of green initiatives. Purchase of materials and equipment has to be planned keeping in mind the financial constraints. Existing human resources have to be efficiently deployed.

II) Best Practice:

Title of the practice: *Learning Beyond The Syllabus*

Goal: This initiative is aimed at enhancing the personality of the student, understanding the scope of the subject, developing global perspective and acquiring skills needed in real-world scenarios. A broader approach is necessary to help students transcend the limitations imposed by the syllabi. It also enables them to bridge the gap between theoretical knowledge and practical applications of the subject. It sparks the students' curiosity to encompass a wider vision beyond the result oriented mindset.

The Context: The syllabi being framed by the University of Mumbai, the College identified a need to align them with the requirements of the students. Also, the students of the College are from diverse socio-economic backgrounds including first generation learners and students from vernacular medium schools. They need to be imparted skills that will help them cope with the demands of the globalised job market.

The practice: Various co-curricular associations organise their programmes keeping in mind the need to develop a perspective beyond the syllabus e.g. The Book Review Club, Chitravedh and DLLE. Efforts are made to keep the students abreast of the latest developments, to provide them exposure to the domain knowledge and to inculcate social responsibility. All these enrichment activities in various subjects are conducted even though they are not prescribed in the syllabus. Students are encouraged to think out of the box.

Learning Beyond the Syllabus is implemented through the following methods:

- confidence building through class presentations
- institutional and Field visits
- talks by experts on current trends
- film screenings followed by discussion with directors, actors and critics
- interaction with renowned personalities
- exhibitions and poster presentations
- book reviews
- entrepreneurship activities
- competitions like elocution and quiz
- teamwork and event management skills through departmental festivals
- community service activities like *Umed*, health awareness campaigns, gender sensitisation, blood donation camps
- photography based on themes

These programmes range from syllabi to social awareness, personality and skill development.

Evidence of success:

Participation in *Learning Beyond the Syllabus* activities has helped the students to broaden their vision and develop self-confidence. By organizing and managing the events of the associations, students have acquired practical skills of leadership, teamwork, time management, and financial management.

This is evident from the numerous prizes and accolades won by students at inter-collegiate and University level competitions. Large number of our alumni occupies leading positions in industry, media, sports and academics.

Problems encountered and resources required:

Coordinating these activities with the time-tables of the students is a challenge. Due to the high student-teacher ratio in the Commerce faculty, it is often not possible to conduct individual presentations. Students have to be motivated to put in time and effort for these initiatives.

POST ACCREDITATION INITIATIVES

As per the recommendations of the NAAC Peer Team during their visit in August 2010, the following measures were adopted for quality enhancement:

- *Arts, Management and Commerce faculty needs an urgent boost. More teachers may be appointed; post graduate programmes may be initiated with wide choices.*

Departmental cubicles have been allotted to the Heads of the Departments of Arts and Commerce faculties.

For the Arts and Commerce faculties, qualified staff was appointed as per the prescribed procedure of the University and the Government.

MCom programme was introduced in the year 2013-2014. An additional division for Commerce was applied for and started in 2012-2013. Application has been submitted for an additional divisions for the MCom programme.

- *Teaching methods and laboratories require upgradation and modification. Computer proficiency may be encouraged amongst students, teaching and non-teaching staff.*

There is an increased use of ICT in teaching, learning and assessment. New computer laboratories have been set up on the 4th floor of the New Building. A new laboratory for the applied component of Computers in Mathematics, Statistics and Commerce courses has been set up with the potential for creating e-library access. For details, please refer to 4.1.2. Teachers and non-teaching staff have been given email ids (name.surname@ruparel.edu); they are regularly used for internal communication. Workshops on computerization were held for teachers and non-teaching staff e.g. MOODLE for teachers and *Vriddhi* for non-teaching staff.

- *MOUs can be signed with other educational institutions and prospective employers.*

MOUs have been signed with

- Tata Institute of Fundamental Research (TIFR), wherein eminent scientists from the Institute deliver talks and conduct interactive sessions. The *Chai and Why* programme for the popularization of science is held in the College every month.
- IIT Bombay FOSSEE group for promotion of Open Source Software technology at College level.

- *Hostel for girl students may be constructed with the help of UGC. Rest rooms for girl students and female staff may be added on all floors.*

An additional toilet block has been constructed in the Girls' Common Room. A sanitary

napkin vending machine and a disposal unit have been installed near the Ladies' toilet for the convenience of girl students. The existing toilets have been renovated.

- *On the job training with local and neighboring industrial visits may be enhanced for students. Entrepreneurship development programmes may be started. Schemes like 'Learn while you earn' may be popularized for students.*

Many institutional and industrial visits were organised to give the students exposure to real life applications of the subject.

To orient students towards entrepreneurship, a one-day seminar on *Self-Employment* was organised by the Department of Marathi under the People Education Programme of the Khadi and Village Industries Commission on 7th February 2015.

A one-day seminar on Entrepreneurship was organised under the People Education Programme of the Khadi and Village Industries Commission in 2016.

Entrepreneurship development activities were also conducted by Department of Management Studies and DLLE Unit. More departments will be encouraged to start similar programmes.

- *The existing building of the College needs an immediate face-lift. The library building needs equal attention.*

Time bound upgradation, renovation and repairs of the various buildings are being carried out. The seminar hall in the Science Building (2 Sc.) was renovated and newly furnished in the year 2011. The College Office and Examination Department have been renovated and restructured for more efficient functioning. The Department of Psychology has also been renovated with the funding from the alumni of the Department. An extension office wing was created for the Scholarship section and the University-related examination work. As per the recommendations of the Structural Auditor, the Library Building was demolished and the Library has been relocated to the spacious ground floor of New Building.

- *Career and Guidance Cell may be strengthened. Special coaching may be provided for students pursuing CA/CS examinations. New self-finance courses for revenue generation are added.*

Self-financed courses and divisions have been added in view of the increasing demand from students. MCom programme was introduced in the year 2013-2014. An additional division for Commerce was applied for and started in 2012-2013. Applications have been submitted for additional divisions for BSc and MSc (IT) as well as MCom programmes.

- *Efforts may be made to get clearance for making the new building operational.*

Immediate efforts were taken to acquire the necessary clearance for the New Building; consequently, the Ground + four floors of the New Building have been made operational from 2011-2012. It includes the Library – 10,000 sq.ft, Departments of IT-CS and Management Studies - 30,000 sq. ft and a well-equipped multipurpose hall admeasuring 10,000 sq.ft. and an ICT enabled seminar room.

Quality enhancement is a continuous process; thus, in addition to implementing the recommendations of the previous NAAC Peer Team, the College constantly endeavours to upgrade and optimally utilize resources with the aim of fostering excellence in education.

PART C

Evaluative Reports of Departments

EVALUATIVE REPORT OF THE DEPARTMENT OF ACCOUNTANCY

- 1 *Name of the department* Accountancy
- 2 *Year of establishment* 1981
- 3 *Names of programmes*
 - Bachelor of Commerce
 - Master of Commerce (Advanced Accountancy)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	0	0
Associate Professors	01	01 (retired in 2016)
Asst. Professors	01	01

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Mr. Nitin Kulkarni (retd.)	BCom, CA, CS	Associate Professor	Accountancy	32 years	NA
Ms. Rohini Shinde	MCom, BEd NET	Assistant Professor	Accountancy	2 years 4months	NA
Ms. Swamini Patil	MCom, NET	Assistant Professor (Ad-Hoc)	Accountancy	6 years	NA
Mr. Ambadas Borhade	MCom, CA, SET	Assistant Professor (Ad-Hoc)	Accountancy	2 years	NA
Mr. Dattatray Dixit	BCom, CA, LLB	Assistant Professor (Clock Hour Basis)	Accountancy	1 year	NA

- 11 *List of visiting faculty* Nil

- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher:* FYBCom – 40%
 SYBCom – 40%
 TYBCom – 60%
- 13 *Student – teacher ratio (program wise):* 1:120
- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* Nil
- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG:*
- 01 – CA,CS
 - 01 – MCom, BEd
 - 01 – MCom, NET
 - 01 – MCom, CA, SET
- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:* Nil
- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received. :* Nil
- 18 *Research Centre / facility recognized by the University :* Nil
- 19 *Publications*
- *Publication per faculty:* Nil
 - *Number of papers published in peer reviewed journals (national / international) by faculty and students, Number of publications in International Database, Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index:* Nil
- 21 *Faculty as members in*
- a) National committee*
- CA Nitin Kulkarni is a Member of
 - Interview Panel Assistant Professor in Accountancy as Subject Expert.
 - Institute of Chartered Accountants of India.
 - Institute Company Secretaries of India
 - Chamber of Tax Consultants
 - Sales Tax Practitioners Association
 - Bombay Chartered Accountants Society
 - CA Nitin Kulkarni was a resource person for Study circle setup by Western India Regional Council of Institute of Chartered Accountants of India.
- b) International committee, c) Editorial boards:* Nil
- 22 *Student projects:* Nil

- 23 *Awards / Recognitions received by faculty and students:* Nil
- 24 *List of eminent academicians and scientists / visitors to the department:* Nil
- 25 *Seminars / Conference / Workshops organized the source of funding:* Nil
- 26 *Student profile programme / course wise :*

Name of the Course/programme	Applications received	Selected	Pass Percentage
F.Y.B.Com (2015-16)	963	---	---
2014-15	1115	431	90.20
2013-14	735	407	91.65
2012-13	692	311	92.45
2011-12	---	310	91.94

- 27 *Diversity of students:* All students from the same state.
- 28 *How many students have cleared national and state competitive examination?*
- Mr. Ambadas Borhade (faculty) cleared SET Exam in September 2015
 - Ms. Shruti Koli cleared SET Examination in September 2015
- 29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	80%
<i>PG to MPhil</i>	Nil
<i>PG to PhD</i>	Nil
<i>PhD to Post-Doctoral</i>	Nil
<i>Employed</i>	05
<ul style="list-style-type: none"> • <i>Campus selection</i> • <i>Other than campus recruitment</i> 	
<i>Entrepreneurship / Self - employment</i>	Nil

- 30 *Details of infrastructural facilities*
- a) *Library* Nil
- b) *Internet facility* One computer with internet connection
- c) *Classroom with ICT* Common facility is used
- d) *Laboratories* NA
- 31 *Number of students receiving financial assistance from college, university, government or other agencies:*

Students of Reserved categories get concessions in fees from the Welfare Department, Government of Maharashtra.

33 *Teaching methods adopted to improve student learning*

- Use of Chalk and board method for solving the accounting problems, tax computations.
- ICT is used for teaching the Accounting topics related to the use of the Accounting Software- Tally ERP 9
- Industrial Visits are Organised
- Students are provided with guidance for appearing for competitive exams like CA, ICWA, CA and MPSC

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil*

35 *SWOC analysis of the department and Future plans:*

STRENGTHS:

- Dedicated hardworking faculty.
- The Head of the Department is a senior Chartered Accountant in practice and a member of Professional Bodies under statutory act- ICAI, ICSI.
- Faculty capable of handling modern teaching techniques.

WEAKNESSES:

- Lack of conducting State Level, National level seminars or conferences.
- Lack of writing research paper.
- Lack of permanent faculties.

OPPORTUNITIES:

- New courses need to be introduced.
- Student awareness regarding mutual funds, BSE, NSE, derivatives market.

CHALLENGES:

- To make students convergent and confident in order to face the dynamic global business environment.
- To motivate students to pursue professional course while doing graduate studies.
- Ever-changing environment relating to corporate laws, taxation and accounting standards.

FUTURE PLANS:

- To provide information about the professional courses that can be pursued by Commerce students.
- To arrange guidance lectures for writing the TYBCom University Examinations.
- Using modern technology while conducting lectures.

EVALUATIVE REPORT OF THE DEPARTMENT OF BOTANY

- 1 *Name of the department* Botany
- 2 *Year of establishment* 1952
- 3 *Names of programmes*
 - Bachelor of Science (Botany)
FY (CBZ and CPB)
SY (BZ and CB)
TY Botany with Horticulture and Gardening as applied component.
 - Master of Science (Botany with Mycology and Plant Pathology as special subject.
 - PhD
- 4 *Name of interdisciplinary courses and the departments/units involved:*
Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

Posts	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	06	03

10 *Faculty profile*

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4
Dr. Mangala Heble (retd.)	MSc, DHE, PhD	Associate Professor and HOD	Mycology and Plant Pathology	33 years	04 Working for Ph. D.
Ms. Neha Sawant	MSc	Assistant Professor	Plant Anatomy	23 years	----
Dr. Rajesh Jadhav	MSc, Ph. D.	Assistant Professor	Plant Physiology	12 years	----
Mr. Shyam Palkar	MSc	Assistant Professor	Mycology and Plant Pathology	03 years (Pursuing PhD)	----
Ms. Sakshi	MSc	Assistant Professor	Mycology and Plant Pathology	02 ½ years	----

11 *List of visiting faculty*

Recognized PG teachers from the University of Mumbai engage lectures for MSc Part II for the subject of Mycology and Plant Pathology.

12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*

- FYBSc – 50%
- SYBSc– 33%
- TYBSc – 25-35%

13 *Student – teacher ratio (program wise)*

- FYBSc - 18:01
- SYBSc - 20:01
- TYBSc - 06:01
- MSc - 10:02

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled*

- Mr. Shantaram Joshi Lab Assistant
- Mr. Sambhaji Geete Lab Attendant
- Mr. Ankush Shembade Lab Attendant
- Mr. Sunil Gaikwad Lab Attendant
- Mr. Vivek Patil Lab Attendant
- Mr. Gangaram Kuchekar Field Collector

Post	Sanctioned	Filled
Lab Assistant	02	02
Lab Attendant	03	03
Field Collector	01	01
Peon	01	01

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Dr.Mangala Heble (retd.)	MSc, PhD , DHE
Ms.Neha Sawant	MSc
Dr.Rajesh Jadhav	MSc,PhD

16 *Number of faculty with ongoing projects from a) National b)*

International funding agencies and grants received: Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received:* Nil

18 *Research Centre / facility recognized by the University*

Research facility in Department of Botany – Room No. 18 Sc.

Common facility for research in Life Sciences.

19 *Publications*

a) Publication per faculty:

Name of faculty	Publication (Papers, Abstracts)
Dr. Mangala Heble (retd.)	02
Ms. Neha Sawant	02
Dr. Rajesh Jadhav	01
Ms. Sakshi Kashyap	03
Mr. Shyam Palkar	02

b) Number of papers published in peer reviewed journals (national / international) by faculty and students

Name of the Faculty	Paper	Abstract
Dr. Mangala Heble (retd.)	01 - National	01 - International
Ms. Neha Sawant	01 – National 01- International	---
Dr. Rajesh Jadhav	01 – National 01- International	---
Ms. Sakshi Kashyap	01 – National 01- International	01- National
Mr. Shyam Palkar	01- National	01 - International

c) Number of publications in International Database, d) Monographs, e) Chapter in Books, f) Books edited, g) Books with ISBN/ISSN numbers, h) Citation Index, i) SNIP, j) SJR, k) Impact factor, l) H-index: Nil

20 *Area of consultancy and income generated*

- Dr. Mangala Heble was consulted by Ms. Megha Sampat, (from Green Health Foundation), to help them short-list indigenous plants for Mega Plantation on the banks of river Godavari at Nashik in the month of October 2015.
- Dr. Padma Pannikar, from SIES College, Sion, had requested for the culture of the fungus '*Trichoderma*' from the Department of Botany in September 2015. The department gave her the requested culture.
- Dr. Sunita Shailajan, from R. Ruia College, Matunga (E), had requested for the culture of the fungus '*Fusarium*' and, Aflatoxin extracts from the Department of Botany in April 2016. The department gave her the requested culture and material.

21 *Faculty as members in*

a) National committee b) International committee c) Editorial boards

- Dr. Mangala Heble (retd.) was the member of the syllabus committee Credit Based Semester and Grading System for the class TYBSc.

- Ms. Neha Sawant was the member of the syllabus committee Credit Based Semester and Grading System' for the class SYBSc.
- Ms. Neha N. Sawant was appointed on 30th April 2016, as the organizing committee member of Summer School 2016-Training-Cum-Innovation programme, by the department of Student's welfare and Universities Information Bureau.

22 *Student projects*

a) Percentage of students who have done in-house projects

- 100 % of students of classes TYBSc and MSc II work on in-house projects every year as part of their syllabus.
- 2% students of SYBSc work on projects.

b) Percentage of students placed for projects in organizations outside the institutions

Class	% of students participating in the outside project / workshops
FYBSc	3.57%
TYBSc	16%

- Mr. Pradnesh Deshmukh and Ms. Priyal Dehnuwala of the class F. Y. B. Sc., participated in the Summer School 2016-Training-Cum-Innovation programme, organised by the department of Student's welfare and Universities Information Bureau, in the month of May, at the University of Mumbai, Kalina Campus.
- Ms. Sailee Sakhalkar of class TYBSc interned with Biodiversity and CSR department for the month of May, 2016.

23 *Awards / Recognitions received by faculty and students*

- | | |
|---|--|
| <p>Ms. Nupoor M.
Telawane
(TYBSc 2014-15)</p> | <ul style="list-style-type: none"> • Stood first in the University of Mumbai, in the subject of Botany, at the TYBSc Degree Examination, held in April, 2015. • She is the recipient of 'The Dr. S. M. Karmarkar Scholarship', for the year 2015, for securing highest marks in the subject of 'Botany', at the TYBSc Degree |
|---|--|

examination, held in April, 2015. The Scholarship is of value of Rs. 6000.

- She is also the recipient of ‘The Nirmala Daughter of the Late Dr. W. N. Welinkar Memorial Prize’, for the year 2015, for securing the highest number of marks in the subject of ‘Botany’, from among the successful female candidates at the TYBSc Degree examination held in May, 2015. The Prize is of value of Rs. 280.
- *She was selected for Master’s in Wildlife, at NCBS Bangalore.*
- *Erasmus Mundus: She has been selected for full scholarship for TROPIMUNDO Masters programme for Tropical Ecology in Italy, Malaysia and Belgium.*
- Got selected for the University Final Round of Avishkar Research Convention-2015-16, held on 17th December, 2015, organised by University of Mumbai, and Department of Students’ Welfare.
- Their project topic was, ‘Identification of Leather Degrading Fungi, and their growth inhibition using extract of *Trichoderma viride*.’

Ms. Sailee
Sakhalkar
(TYBSc
2015-16)

Mr. Rohit B. Inkar
(S. Y. B. Sc.)

Mr. Mayur S. Kale
(S. Y. B. Sc.)

Ms. Mukta S.
Salunkhe
(F. Y. B. Sc.)

24 *List of eminent academicians and scientists / visitors to the department*

- Renowned Landscape architect, Mr. Vijay Thorat, on 6th Feb 2014.
- Dr. Sajeet Haridas, Bioinformatics Systems Analyst at the U.S. Department of Energy Joint Genome Institute (DOE JGI) on 11th September, 2015.

25 *Seminars / Conference / Workshops organized the source of funding*

a) National, b) International :

Nil

26 *Student profile programme / course wise :*

[2014-15]

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage	
			M	F	Sem I	Sem II
F. Y. B. Sc.	116	91	24	67	64.83	73.86
S. Y. B. Sc.	20	20	03	17	98.33	93.33
TYBSc	10	10	02	08	100	100
MSc I	13	10	02	08	100	100
MSc II	10	08	01	07	50	62.5

[2015-16]

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage	
			*M	*F	Sem I	Sem II
F.Y.B. Sc.	109	63	26	37	90.48	
S.Y.B. Sc.	39	39	08	31	100	
T.Y.B. Sc.	06	06	---	06	100	
MSc I	12	09	03	06	66.67	
MSc II	10	10	02	08	100	

27 *Diversity of students*

Course	% from same State	% other State	% from abroad
FYBSc	100%	--	--
SYBSc	100%	--	--
TYBSc	100%	--	--
MSc	100%	--	--

28 *How many students have cleared national and state competitive examination?* Nil

29 *Student progression*

Student progression	Against % enrolled		
	2012 – 2013	2013 – 2014	2014 - 2015
<i>UG to PG</i>	42.10%	57.14%	80%
<i>PG to MPhil</i>	--	--	--
<i>PG to PhD</i>	10%		--
<i>PhD to Post-Doctoral</i>	--	--	--
<i>Employed</i>			
• <i>Campus selection</i>	--	--	--
• <i>Other than campus recruitment</i>	100%	30%	99%
<i>Entrepreneurship / Self - employment</i>	--	--	--

30 *Details of infrastructural facilities*

- a) Library* Departmental library with 32 books and some Journals
- b) Internet facility* One computer with internet facility
- c) Classroom with ICT* 01 LCD projector and 01 OHP
- d) Laboratories* 02 (UG and PG)

31 *Number of students receiving financial assistance from college, university, government or other agencies* Nil

32 *Details on student enrichment programmes (special lectures / workshops /seminar) with external experts*

Dr. Sajeet Haridas, an alumnus of the Department and Bioinformatics Systems Analyst at the U.S. Department of Energy Joint Genome Institute (DOE JGI), was invited on 11th September, 2015, to give a talk on 'Bioinformatics'.

33 *Teaching methods adopted to improve student learning*

- Chalk and board method
- Charts
- Demonstrations
- PowerPoint presentations
- Videos relevant to the syllabus

- Students are taken for campus, local and outstation excursions, students study the biodiversity and ecological conditions of the places visited.
- Bridge course conducted for FYBSc and SYBSc students who have decided to take Botany as one of their subjects.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Cultures of various fungi are given to colleges in Mumbai, for their experiments and research, on their request.

2015-16

- Dr. Padma Pannikar, from SIES College, Sion, had requested for the culture of the fungus 'Trichoderma' from the Botany Dept. of Ruparel College, in the month of September (2015). The department gave her the requested culture.
- Dr. Sunita Shailajan, from R. Ruia College, Matunga (E), had requested for the culture of the fungus 'Fusarium' and, Aflatoxin extracts from the Botany Dept. of Ruparel College, in the month of April (2016). The department gave her the requested culture and material.

35 *SWOC analysis of the department and future plans*

STRENGTHS:

- All four permanent staff members are recognized PG teachers. Two teachers are research guides for PhD, one teacher for MSc by research.
- Laboratory is well equipped with analytical instruments essential for regular syllabus completion and research students.
- FIST grant from UGC to upgrade the instruments in the department

WEAKNESS:

- Lack of suitable placements in the field of Botany for graduate and post-graduate students.
- Absence of formal alumni association of the department
- Less space in the MSc Lab to accommodate MSc I and II students

OPPORTUNITIES:

- Add on various plant species of medicinal use, to the botanical garden in the college.
- Individual teachers can make use of opportunities to improve their skill in bioinformatics and biotechnology.
- Conduct a certificate course in horticulture and water analysis.

CHALLENGES:

- To inculcate research aptitude in students at under graduate level.
- To conduct a national conference on some theme about Mycology and plant pathology, which is a special subject at M.Sc. in the department.
- To look out for placement opportunities for graduate and post-graduate students.

EVALUATIVE REPORT OF THE DEPARTMENT OF CHEMISTRY

- 1 *Name of the department* Chemistry
- 2 *Year of establishment* 1952
- 3 *Names of programmes*

Bachelor of Science (Chemistry)

Master of Science (Chemistry) (By Papers)

 - Physical
 - Inorganic
 - Organic
 - Analytical

Master of Science (Chemistry) (By Research)

PhD (Chemistry)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

Post	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	03	03
Asst. Professors	06	06

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Ms. Apurva Patkar	MSc	Head, Department of Chemistry and Associate Professor	Organic Chemistry	29	NA
Dr. Rajan Rele	MSc, PhD., Post Graduate Diploma in Analytical Chemistry	Associate Professor	Inorganic and Analytical Chemistry	33	1
Mr. Sanjay Mahimkar	MSc	Associate Professor	Physical Chemistry	28	NA

Dr. Krishnakant Waghmode	MSc, PhD, SET, GATE, DOA – CDAC	Assistant Professor	Organic Chemistry	13	Nil
Dr. Jyoti Patil	MSc, PhD, DHE	Assistant Professor	Physical Chemistry	21	Nil
Dr. Kshitij Chavan	MSc, PhD, SET, Certificate Course in Chemical Technology Management(UDCT), GATE	Assistant Professor	Organic Chemistry	11	Nil
Dr. Vaishali Rajurkar	MSc, MPhil, Bed, PhD	Assistant Professor	Inorganic Chemistry	3	Nil
Dr. Annu Sikri	MSc, PhD, DCST, NET	Assistant Professor	Inorganic Chemistry	24	Nil
Dr. Swati Madav	MSc, PhD	Assistant Professor	Physical Chemistry	21	Nil
Ms. Shabana Shaikh (Ad-Hoc)	MSc	Assistant Professor	Analytical Chemistry	5	NA
Ms. Archana Karkera (Ad-Hoc)	MSc	Assistant Professor	Analytical Chemistry	2	NA
Mr. Niranjan Sanzgiri (Ad-Hoc)	MSc	Assistant Professor	Organic Chemistry	2	NA
RETIRED FACULTY MEMBERS					
Dr. Nandini R. Pai (Retired in November 2010)	MSc, PhD	Associate Professor, Former Head of Department	Organic Chemistry	As of 2010 37 years	08
Dr. Damodar A. Shanbhag (Retired in July 2012)	MSc, PhD	Associate Professor	Organic and Inorganic Chemistry	As of 2012 37 years	Nil
Ms. Harbans Keer (Retired in February 2011)	MSc, MPhil	Associate Professor	Organic Chemistry	As of 2011 36 years	Nil
Ms. Sunanda Nadkarni (Retired in June 2012)	MSc, DHE	Associate Professor	Physical Chemistry	As of 2012 34 years	Nil
Dr. Ruchira Manjrekar (Retired in November 2014)	MSc, PhD	Associate Professor	Physical Chemistry	As of 2014 26 years	Nil

11 *List of visiting faculty:*

Recognised PG teachers from University of Mumbai engage lectures for MSc II (Organic Chemistry)

12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*

Class	Theory					Practical				
	2015-16	2014-15	2013-14	2012-13	2011-12	2015-16	2014-15	2013-14	2012-13	2011-12
FYBSc	50%	50%	33%	33%	10%	60%	60%	60%	50%	50%
SYBSc	22%	22%	10%	10%	0%	25%	25%	20%	20%	10%
TYBSc	0%	0%	0%	0%	0%	10%	10%	10%	0%	0%
MSc	NA	NA	NA	NA	NA	0%	0%	10%	0%	0%

13 *Student – teacher ratio (program wise)*

Class	Student Teacher Ratio				
	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
FYBSc	1:32	1:32	1:32	1:32	1:32
SYBSc	1:10	1:10	1:10	1:10	1:10
TYBSc	1:10	1:10	1:10	1:10	1:10
MSc	1:9	1:9	1:9	1:9	1:9

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:*

Post	Sanctioned	Filled
Lab Assistant	05	04
Lab Attendant	11	11
Sweeper	01	01

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Ms. Apurva Patkar	MSc
Dr. Rajan Rele	MSc, PhD, Post Graduate Diploma in Analytical Chemistry
Mr. S. A. Mahimkar	MSc
Dr. Krishnakant Waghmode	MSc, PhD., SET, GATE, DOA – CDAC
Dr. Jyoti Patil	MSc, PhD, DHE

Dr. Kshitij Chavan	MSc, PhD, SET, Certificate Course in Chemical Technology Management(UDCT), GATE
Dr. Vaishali Rajurkar	MSc, MPhil, BEd PhD
Dr. Annu Sikri	MSc, PhD, DCST,NET
Dr. Swati Madav	MSc, PhD

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received*

Name	Title Of Project	Year	Agency	Grant	Status
Dr. Rajan Rele	(Co-investigator) 'Investigation of chemical nature of bioactive compounds from the active fractions of <i>Turbo brunneus</i> extract and to study their mode of action in regulation of osteoclastogenesis'	2014-17	DBT	Rs. 50,00,000/-	Approved
Dr. Krishnakant Waghmode	"Synthesis of N'-[phenyl(phenyldiazenyl)methylene]isonicotinohydrazides and 4-[5- (alkyl thio)-1,3,4-oxadiazol-2-yl] compounds their Chromatographic separation, characterization by spectroscopic methods and study of their biological behavior"	2015-16	UGC	Rs. 1,80,000/-	Ongoing
Ms. Sunanda Nadkarni	Preparation of Glucosamine hydrochloride, an antiarthritic drug from Chitin and its Analytical Profile.	2011-12	Univ. of Mumbai	Rs. 20,250/-	Completed

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.*

Year	Funding Agency	Amount
2014 – 2015	DST	50,00,000
2015 – 2016	UGC	1,80,000

18 *Research Centre / facility recognized by the University*

The Post graduate laboratory is recognized by University of Mumbai for MSc (Research) and PhD.

19 *Publications*

- *Publication per faculty*

Name of faculty	*Publication (Papers, Abstracts)
Dr.Rajan Rele	101
Dr.Krishnakant Waghmode	07
Dr. Jyoti Patil	01
Dr.Kshitij Chavan	01
Dr. Vaishali Rajurkar	05

- *Number of papers published in peer reviewed journals (national / international) by faculty and students: 101*

- *Number of publications in International Database:*

- *Citation Index* Dr. Rajan Rele: 147
- *SNIP* Nil
- *SJR* Nil
- *Impact factor* Dr. Rajan Rele: 5.1
- *H-index* Dr. Rajan Rele: 08 1-10 index: 07

20 *Area of consultancy and income generated:* Nil

21 *Faculty as members in*

a. National committee

- Ms. Apurva Patkar Member of Association of Chemistry Teachers (ACT) (Membership no: 731)
- Dr. Jyoti Patil Member of Association of Chemistry Teachers (ACT) (Membership no: 732)

b. International committee

Dr. Rajan Rele:

- International Science Congress Association.
- Bioinformatics.

c. Editorial boards

Nil

22 *Student projects*

a) Percentage of students who have done in-house projects 2%

b) Percentage of students placed for projects in organizations outside the institutions
2%

23 *Awards / Recognitions received by faculty and students*

Faculty:

- Dr Rajan Rele
 - received fellow membership of International Science Congress Association, FC -518
 - Fellow membership of Bioinformatics.
 - Google scholar citation index 149
- Dr. Krishnakant Waghmode received recognition as a guide for MSc (By Research) and PhD in Chemistry from Mumbai University.

Students:

- **Chem-Caster Fest**
 - Prathmesh Khale of FYBSc received 3rd prize in the seminar on Co-Ordination Chemistry at Bhavan's College at Chowpatty on 8th-9th January 2016.
 - Aniket Hanchate and Yash Dabholkar of FYBSc received 2nd prize for Model making at Hazarimal Somani College at Chowpatty on 8-9th January 2016.
 - Nishant Pujari and Neel Iyer of FYBSc received the 1st prize for Chem Hunt on 8th-9th January 2016 at Hazarimal Somani College at Chowpatty.
- **Jigyasa 2016 Fest**
 - Nishant Pujari, Aniket Hanchate and Neel Iyer of FYBSc were awarded a trophy in Annual Science Quiz of um-DAECBS on 31st Jan 2016.
- **Chem-Fiesta 2016-**
 - Yash Dabholkar of FYBSc. Received 2nd prize in Treasure Hunt and 3rd prize in Chem Quiz at inter collegiate competition organised by Guru Nanak College, at G.T.B. Nagar, on 5th Feb. 2016.

24 *List of eminent academicians and scientists / visitors to the department*

- Padmavibhushan Prof M.M. Sharma (Former director Institute of Chemical Technology)
- Dr. M.M Salunkhe (Vice-Chancellor YCMOU)
- Prof. A.D. Sawant (Former Pro-Vice Chancellor- University of Mumbai)
- Prof. Tulsi Mukherjee (Former Director, Chemistry Group (BARC))
- Prof. Sourav Pal (Director CSIR-National Chemical Laboratory)
- Prof. S.D. Samant (ICT)
- Prof. D.V. Prabhu (Adjunct Professor, Department of Chemistry, Wilson College)
- Prof. B.M. Bhanage (Head, Department of Chemistry, Institute of Chemical Technology)
- Prof. N.V. Thakker (Former OSD, Central University of Rajasthan)
- Prof. A.V. Karnik (Head, Department of Chemistry, University of Mumbai)
- Dr. A.S. Hariharan (Chairperson, Indian Chemical Council)
- Prof. S.R Dharwadkar (Adjunct Professor of Chemistry, University of Mumbai)
- Dr. S.K. Ghosh (Head, Theoretical Chemistry Section, Chemistry Group BARC)
- Dr. Prabodh Chobe (Ex- General Manager, BASF)

- Dr. Prabuddha Ganguli (MHRD IPR Chair Professor, Tezpur University Assam)
- Dr. Vishwanath Dalvi, (Assistant Professor, Department of Chemical Engineering, Institute of Chemical Technology, Mumbai)

25 *Seminars / Conference / Workshops organized the source of funding*

a) *National:* CONCHEM 2014- National Conference on Societal Impact of Chemistry- VISION 2020 on 12,13 September, 2014

b) *International:* Nil

26 *Student profile programme / course wise :*

Programs		Number of applications					Number of students admitted					Demand ratio				
		11-12	12-13	13-14	14-15	15-16	11-12	12-13	13-14	14-15	15-16	11-12	12-13	13-14	14-15	15-16
UG	FY	400	447	459	455*	500	200	247	209	205	228	2:1	2:1	2:1	2:1	2:1
	SY	55	62	95	85	95	55	62	95	85	95	1:1	1:1	1:1	1:1	1:1
	TY	53	38	34	82	60	53	38	34	82	60	1:1	1:1	1:1	1:1	1:1
PG	1	55	60	60	60	60	30	30	30	30	30	2:1	2:1	2:1	2:1	2:1
	2	30	30	30	30	30	30	30	30	30	30	1:1	1:1	1:1	1:1	1:1
M. Phil.	NA															
Ph.D.							08	06	04	04						

27 *Diversity of students:* All students from the same state.

28 *How many students have cleared national and state competitive examination?*

NET:

- Ms. Divya Chenna (Student of TYBSc. – 2012-2013 NET-2015)
- Mr. Thomson Fernandes (Student of TYBSc – 2008-2009 NET- 2012)
- Mr. Pritesh Sharma (Student of M.Sc. – 2010-2011 passed in NET- 2011)

SET:

- Mr. Thomsan Fernandes (Student of TYBSc – 2008-2009)
- Mr. Afsar Ali (Student of MSc – 2008-2009 passed in SET- February 2013)

GATE:

- Ms. Divya Chenna (Student of TYBSc – 2012-2013 passed GATE-2015)
- Mr. Thomson Fernandes (Student of TYBSc – 2008-2009 passed GATE-2012)

CIVIL SERVICES:

- Mr. Sandeep Singh (Student of MSc Physical Chemistry 2011)- Passed main exam of UPSC-Civil Services

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	50%
<i>PG to MPhil</i>	-
<i>PG to PhD</i>	10%
<i>PhD to Post-Doctoral</i>	-
<i>Employed</i>	
<ul style="list-style-type: none"> • <i>Campus selection</i> • <i>Other than campus recruitment</i> 	10% -
<i>Entrepreneurship / Self - employment</i>	-

30 *Details of infrastructural facilities**a) Library*

Departmental library with 332 books

b) Internet facility

2 computers with Internet facility

c) Classroom with ICT

LCD projector

d) Laboratories

Two UG Laboratories,

One MSc Laboratory,

One Research Laboratory for MSc and

PhD

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

Academic Year	Date	Speaker	Theme
2011-12		Dr. Prabodh Chobe	Careers in Chemistry
2012-13		Dr. Narain Israney	Secrets of Success at Examinations
2013-14	CHEMARC WEEK	Madhavi Desai	How to pursue higher studies abroad

	11 th Feb. 2014 to 17 th Feb. 2014	Dr. Aman Desai	There and onwards: A Journey to the Cutting Edge of Chemistry and Chemical Technology
		Dr. Prabodh Chobe	Innovations in Chemistry
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Padmavibhushan Prof. M.M. Sharma, Former Director ICT, First Indian Engineer Fellow of Royal Society, London(Keynote Speaker)	Innovations in Chemical Industry
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Prof. Prabuddha Ganguli, MHRD IPR Chair Professor, Tezpur University , Assam, CEO Cision-IPR, Mumbai	Expanding Horizon of Nanotechnology- R&D Trends and Paths to Commercialisation.
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Prof. Sourav Pal, Director-CSIR-NCL, Pune	Computational Chemistry and Simulation: From Molecules to Materials
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Prof. Tulsi Mukherjee, Ex-Director, Chemistry, BARC, Distinguished Scientist-GOI	Societal Impact of Chemistry, Teaching and Research: Vision 2020
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Prof. Manikrao Salunkhe, Vice-Chancellor, YCMOU	Green Chemistry with an Enviro-Economic Perspective
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Dr. Prabodh Chobe, Ex-GM, BASF	Regional Grooming Centres to Bridge the gap and to meet India's Needs.
2014-15	National Conference- CONCHEM 12-13 th September, 2014	Dr. S. Hariharan, Joint MD, Solaris Chemtech Industries Ltd., Chairperson Indian	Opportunities and Challenges for Young Chemists in the Indian Chemical Industry.

		Chemical Council(North)	
2015-16	28 th January, 2016	Dr. Vishwanath Dalvi, Assistant Professor, Chemical Engineering, ICT, Mumbai	Post Graduate Studies Abroad: Procedure and Requirements.
2015-16	Certificate Course in Foods, Drugs Analysis	Dr. Prabodh Chobe,	Role of Sophisticated Analytical Instrumental Techniques.

Industrial Visits

Academic Year	Date	Place of Visit
2012-13	25/10/2012	B.A.R.C.
2013-14	15/02/2014	Reliance Corporate Park
	15/02/2014	Common Effluent Treatment Plant
2014-15	04/04/2015	Food and Drug Administration, Bandra
2015-16	16/02/2016	B.A.R.C
	06/04/2016	Regional AGMARK laboratories

Certificate Course in Food and Drugs Analysis:

Certificate course in food and drug analysis was organized in April 2015 and April 2016 for FYBSc students. The learning process in the Course included Experiments, Industrial Visit and one interactive session on Teamwork and Leader Skills.

33 *Teaching methods adopted to improve student learning*

Along with conventional methods, we also use Power-point Presentations, Chemistry models, simulations, animations etc.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

- Ms. Apurva Patkar is Secretary of the Women Development Cell of D.G. Ruparel College.
- Dr. Jyoti Patil is the Extension teacher of Department of Life Long Learning and Extension, University of Mumbai (DLLE).

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- 80% teachers are PhD Qualified and 50% PG recognized.
- We have a departmental library comprising of 332 latest books which are accessible to students as reference books with our guidance.
- We have PG courses aided in all branches of Chemistry and unaided in Analytical Chemistry.
- Mentoring, Personal attention and Counseling for UG students.

THREATS (CHALLENGES):

- In presence of fierce competition from new courses, it is difficult to attract students to pure chemistry.
- Difficulty in attracting students to the classroom due to dwindling interest in pure sciences.
- Our challenge is to upgrade our audio visual facility in order to attract the best students to our college.
- Our challenge is to upgrade our self with the necessary IT skills keeping in mind the changing technology scenario.

FUTURE PLANS:

- Procurement of High-end Analytical Instruments like IR spectrophotometer, Electrogravimetry, Atomic absorption spectrometer, Polarograph.
- Increase in the number of Research projects.
- Introduction of new courses: Certificate course in analysis of food and drugs for Undergraduate students.

EVALUATIVE REPORT OF THE DEPARTMENT OF COMMERCE

- 1 *Name of the department* Commerce
- 2 *Year of establishment* 1981
- 3 *Names of programmes* BCom, MCom
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	02	01

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Mr.Ravindra Netawate	MCom,MBA, LLB,(SET)	Head of the Department, Assistant Professor	Business Administration	13	NA
Mr.Sagar Tipnis	MCom, (NET)	Assistant Professor (Ad hoc)	Management	07	NA
Ms. Sonali Raje	MCom	Assistant Professor (Ad hoc)	Accountancy	01	NA

11 *List of visiting faculty:*

- Prof. Ashok Gujar, SIES College;
- Prof. Nishesh Vilekar, Hinduja College of Commerce and Economics;
- Ms. Shubhangi Vartak, Jhunjhunwala College of Arts, Commerce and Science,
- Prof. Sachin Phadke, Chetna College of Commerce and Economics;
- Dr. Sandeep Poddar, P. D. Lions College of Commerce.

12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher:*

FYBCom- 60%, SYBCom- 60%, TYBCom- 40%

13 *Student – teacher ratio (program wise):*

1:110

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* NA

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG:*

- 01 MCom LLB SET,
- 01 MCom NET,
- 01 MCom.

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received:*

Mr. Ravindra Netawate completed a minor research project titled Customer Relationship in Mall Shopping in Navi Mumbai .The research grant of 25,000/- was received from the University of Mumbai for the academic year 2014-2015.

18 *Research Centre / facility recognized by the University :* Nil

19 *Publications*

- *Publication per faculty*
- *Number of papers published in peer reviewed journals (national / international) by faculty and students:*
 - o National: 02
 - o International: 03

- *Chapter in Books:*

- FYBCom- Module II (Business Environment)
- SYBCom- Module III (Production Management)

- *Books with ISBN/ISSN numbers*

- FYBCom- Introduction to Business ISBN No. 978-93-5051-885-4
- SYBCom- Principles of Management & Finance- ISBN No. 978-93-5051-975-2

20 *Area of consultancy and income generated:* Nil

21 *Faculty as members in a) National committee b) International committee c) Editorial boards:*

Mr.Ravindra Netawate- Worked as Member of Editorial Board for Review of National Conference Research Paper- UGC Sponsored One Day National Conference on *Emerging Trends in Banking, Commerce and Insurance : Opportunities, Challenges and Strategies*, Dnyansadhana College, 21st November 2014

22 *Student projects:*

- Avishkar Research Convention –
 - 04 students presented a Research Project in 2014-2015 – District Level
 - 01 student presented a Research Project in 2015-2016 – District Level

23 *Awards / Recognitions received by faculty and students:* Nil

24 *List of eminent academicians and scientists / visitors to the department*

Ms. Smita Jaykar (Renowned Actress and Social Worker) - Delivered a lecture on Women Empowerment on 27th January 2016.

25 *Seminars / Conference / Workshops organized the source of funding:*

A Two day National Workshop on *Research Methodology* organized on 11th and 12th February 2016- Funds collected through Registration Fees from Participants.

26 *Student profile programme / course wise :* FYBCom

Name of the Course/programme		Applications received	Selected	Pass percentage
FYBCom	2015-16	963	--	--
	2014-15	1115	431	85.96
	2013-14	735	407	75.80
	2012-13	692	311	86.17
	2011-12	--	310	81.45

27 *Diversity of students:* All students from the same state.

28 *How many students have cleared national and state competitive examination?:*

- Mr. Ambadas Borhade cleared SET examination in September 2015.
- Ms. Shruti Koli cleared SET examination in September 2015.

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	90%
<i>PG to M.Phil.</i>	--
<i>PG to Ph.D.</i>	--
<i>Ph.D. to Post-Doctoral</i>	--
<i>Employed</i> <i>Campus selection</i> <i>Other than campus recruitment</i>	05
<i>Entrepreneurship/Self-employment</i>	--

30 *Details of infrastructural facilities*

- a) Library* No Departmental Library
- b) Internet facility* One computer with internet connection
- c) Classroom with ICT* Common facility is used
- d) Laboratories* Nil

31 *Number of students receiving financial assistance from college, university, government or other agencies:*

Reserved Category Students receive the fees concession from Department of Welfare of Maharashtra Government.

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:*

Name of the Seminar/ Guest Lecture	Resource Person	Date
Seminar on Role of Branding in Advertising	Mr.Sachin Bavkar	15 th July 2010
Seminar on Competitive Exams	Prof.Sanjay More	23 rd July 2010
Seminar on Career in Banking	Dr.Rekharani	12 th Jan 2011
Seminar on Challenges in HRM	Mr.Arvind Ambekar	25 th Nov 2011
Guest Talk on Consumer Rights	Mr.Ashok Rawat	09 th Dec 2011
Guest Lecture on IAPM	Dr.Shanti Suresh	19 th July 2013
Guest Lecture on Marketing	Dr.Vilasini Patkar	28 th Sept 2013

Guest Lecture on Financial Literacy	Dr.Dileep Bhangade	24 th July 2013
Seminar on Organisational Conflicts	Mr.Kishore Velankar	14 th Jan 2013
Seminar on Resume Writing	Mr.A.S.Vaidya	18 th Jan 2013
Guest Lecture on HRM	Dr.Parag Ajgaonkar	24 th Feb 2013
Guest Lecture on Career Guidance for SYBCOM Students	Ms.Laxmi Bhat	15 th Jan 2014
Guest Lecture on Research Project Writing	Prof.R.B.Wani	20 th Jan 2014
Guest Lecture on Successful Entrepreneurship	Mr.Gajanan Jadhav	17 th Feb 2014
Guidance Lecture on Yoga and Stress Management	Shree Ambika Yog Kutir	19 th July 2014
Debate & Elocution Competition	Khadi Gram Udyog	5 th & 7 th February 2015
Digital Media Marketing & Communication	Mr.Vivek Mishra	11 th February 2015
Talk on Financial Literacy	Dr.Dilip Bhanagade	11 th August 2015
Guest Lecture on Women Empowerment	Ms. Smita Jaykar	27 th January 2016
Guest lecture on Goal Settings & Achievement	Dr. Vineet Agrawal	23 rd January 2016
Guest Lecture on Opportunities in Tours and Travels	Mr.Amit Nambiar	05 th February 2016
Talk on Soft Skills Development	Ms .Gayatri Gadgil	08 th February 2016
Workshop on research methodology	Dr. Madhukar Dalvi Dr. Chandrahauns Chavan	11 th to 12 th February 2016
Talk on Financial Planning & Management	Ms. Hemali Ajgaonkar	22 nd February 2016

33 *Teaching methods adopted to improve student learning*

- Use of ICT in teaching
- Interactive Teaching Learning Method
- Guest Lectures on various topics
- Industrial Visits:

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities:* Nil

STRENGTHS:

- Qualified staff
- Innovative practices
- Excellent co-ordination and co-operation within the department

WEAKNESSES:

- Lack of permanent faculties
- Lack of linkages with industries and collaborations
- Lack of conducting state level, national level seminars and conferences

OPPORTUNITIES:

- Opening of Commerce Lab
- Practical exposure to students with industrial visits
- New courses to be introduced

CHALLENGES:

- Career opportunities via campus recruitment
- Enhancing the results of the students
- Continuous change in syllabus and exam pattern

FUTURE PLANS:

- Conducting Workshops / Seminars/ Conferences
- To Arrange various Guest Lectures/ Talk for Student Development
- Participation in National / International Seminars/ Workshops / Conferences
- Research Paper Publications
- To conduct Certificate Course for Export Marketing and Financial Marketing and also Soft Skills Development.
- Mentoring the Students

EVALUATIVE REPORT OF THE DEPARTMENT OF ECONOMICS

- 1 *Name of the department* Economics
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Bachelor of Arts (Economics)
- 4 *Name of interdisciplinary courses and the departments/units involved:*
Course offered in Arts, Science and Commerce
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	2	2
Asst. Professors	2	2

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Dr. Prakash Salvi	MA MPhil, PhD	Head of the Department, Associate Professor	Banking And Finance	34 yrs	10
Ms. Varsha Utpat	MA	Associate Professor	Quantitative Economics	32 yrs	--
Ms. Anita Hamand	MA, SET	Assistant Professor	Agricultural Economics	23 yrs	--
Mr. Eknath Lahamate	MA, NET	Assistant Professor	Banking & Agricultural Economics	2 yrs	--

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher :* Nil

13 *Student – teacher ratio (program wise):*

Course	Student-Teacher Ratio
TYBA	10:1
SYBA	70:1
FYBA	75:1
FYBCom	120:1

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled :* Nil

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Dr. Prakash Salvi	MA, MPhil, PhD
Ms. Varsha Utpat	MA
Ms. Anita Hamand	MA, SET
Mr. Eknath Lahamate	MA, NET

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received. :* Nil

18 *Research Centre / facility recognized by the University* Nil

19 *Publications*

- Number of papers published in peer reviewed journals (national / international) by faculty and students:*

2010-11 (01)

2012-13 (02)

2014-15 (01)

- Number of publications in International Database, Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index:* Nil

20 *Area of consultancy and income generated :* Nil

21 *Faculty as members in*

a) National committee ,b) International committee , c) Editorial boards: Nil

22 *Student projects* Nil

23 *Awards / Recognitions received by faculty and students* Nil

24 *List of eminent academicians and scientists / visitors to the department*

- 2010-11
 - Mr. Anurag Bansal: - Director, Success Achievers Pvt. Ltd.
 - B.K. Savitri J. Bramhkumari
 - Prof. Suresh Lalwani:- S.P Jain Institute of Management Studies, Andheri.
 - Dr. Abhay Pethe: - Director, Department of Economics, University of Mumbai.
 - Prof. Rajan Padwal:- Head, Department of Economics, M.D. college of Mumbai.
 - Mr. Savkar: - Bombay Stock Exchange.
 - Mr. Arup Mukharji: - Assistant Vice President, Educational Department, National Stock Exchange, Mumbai.
- 2011-12
 - Ms. Charanya Krishna, UTI Bank, on 20th August, 2011
 - Mr. Ganesh Shanbag, MD .SMS Financial service PVT.Ltd., on 17th January, 2012.
- 2012-13
 - Dr. Subir Gokarn: - Deputy Governor, RBI.
 - Prof. Suresh Lalwani:- S.P. Jain Institute of Management Studies, Andheri.
 - Dr. Subir Gokarn: - Deputy Governor, RBI.
 - Prof. Suresh Lalwani: - S.P. Jain Institute of Management Studies, Andheri.
- 2013-14
 - Ms. Charanya Krishna, Chief Economist, Asset Management Company, UTI Mutual Fund.
 - Dr. Chanrahar Deshpande, on 24th August, 2013.
- 2014-15
 - Dr. P.M. Sule, Former Principal of D.G. Ruparel College.
- 2015-16
 - Dr. Neeraj Hatekar, Director, Department of Economics, University of Mumbai.
 - Dr. Chandrahas Deshpande, eminent academician.

25 *Seminars / Conference / Workshops organized the source of funding: Nil*

26 *Student profile programme / course wise :*

Name of the Course	Applications		Enrolled		Pass %
	Received	Selected	M	F	
Economics with Econometrics	27	27	8	19	
Economics with International Economics	08	08	01	07	
Economics – Politics	07	07	04	03	

27 *Diversity of students:* All students from the same state.

Course	% from same State	% other State	% from abroad
FYBA	98.4	1.35	Nil
SYBA	100	0	Nil
TYBA	100	0	Nil

28 *How many students have cleared national and state competitive examination?:* Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	-
<i>PG to MPhil</i>	-
<i>PG to PhD</i>	-
<i>PhD to Post-Doctoral</i>	-
<i>Employed</i> <i>Campus selection</i> <i>Other than campus recruitment</i>	-
<i>Entrepreneurship / Self - employment</i>	-

30 *Details of infrastructural facilities*

- a) *Library* Nil
- b) *Internet facility* One computer with internet facility
- c) *Classroom with ICT* Common facility used
- d) *Laboratories* NA

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:* Nil

33 *Teaching methods adopted to improve student learning:* Interactive discussions on current issues, paper presentations in the class other than regular class-room teaching with the available technology.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities:* Nil

35 *SWOC analysis of the department and Future plans:*

STRENGTHS:

- One of the few colleges in Mumbai to offer courses in quantitative economics.
- Experienced faculty.
- Faculty members who have worked as
 - Chairperson and Members of Board of Studies, Academic Council, Faculty of Arts, Faculty of Science and Faculty of Commerce.
 - Convener of syllabus framing committees - BA and MA, chairpersons, paper- setters, moderators and examiners at university examinations, including PET.
- Head of the Department: Recognized Doctoral Research Guide, Department of Economics (Autonomous), University of Mumbai

WEAKNESS:

- Lack of Research.

OPPORTUNITIES:

- Quantitative economics helps the students to get admission to the post-graduate courses and getting employment in corporate world.

CHALLENGES:

- To increase the number of students for major economics.
- To motivate students of faculty of Arts for quantitative economics.
- To publish research papers regularly.

EVALUATIVE REPORT OF THE DEPARTMENT OF ENGLISH

- 1 *Name of the department* English
- 2 *Year of establishment* 1952
- 3 *Names of programmes* BA (English) single major and double major
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	03	03

- 10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Gayatri Gadgil	MA, SLET	Asst. Professor	English Literature	10 Years 06 Months	NA
Hanumant Lokhande	MA, SLET, PGCTE	Asst. Professor	English Literature	08 Years 04 Months	NA
Gargi Bendre	MA, NET, M.Phil	Asst. Professor	English Literature	02 Year 06 Months	NA
Martin Ebnazer D.	MA	Asst. Professor (Ad-Hoc)	English Literature	07 Years 04 Months	NA

- 11 *List of visiting faculty:* Nil

- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:* 10.6% (7 out of 66); Percentage of Tutorials = 4.16 % (01 out of 24) by a faculty on CHB

- 13 *Student – teacher ratio (program wise)*

FYBA Communication Skills in English	100:1
FYBCom Business Communication	120:1
SYBA Mass Communication	100:1
SYBA English Literature	50:1
TYBA English Literature	22:1

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:*
Nil

- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

PG:	04
M.Phil:	01
Pursuing PhD:	02

* for details please refer to 10

- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :* Nil

- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.* Nil

- 18 *Research Centre / facility recognized by the University:* Nil

- 19 *Publications*

- Publication per faculty*

Name of faculty	Publication (Papers)
Hanumant Lokhande	08
Gargi Bendre	01

- Number of papers published in peer reviewed journals (national / international) by faculty and students:* 04

- *Number of publications in International Database, Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index:*
Nil

20 *Area of consultancy and income generated:* Nil

21 *Faculty as members in a) National committee b) International committee c) Editorial boards:*
Nil

22 *Student projects:*

Ms. Juilee Samant presented a research paper at the Avishkar Research Convention (District Level) in 2014-2015.

23 *Awards / Recognitions received by faculty and students:*

Ms. Gayatri Gadgil was selected to attend the international course titled *Innovation and Entrepreneurship in Education* by MASHAV – Israel's Agency for International Development and Co-operation. The course was conducted by The Aharon Ofri International Training Centre from 8th March to 3rd April 2014.

24 *List of eminent academicians and scientists / visitors to the department:*

Prof. Conrad Coelho, to deliver a lecture on 'Body Politic in Shakespeare's plays' on 10th February 2016.

25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise :*

Name of the Course/programme	Year	Applications received	Selected	Enrolled		Pass percentage
				M	F	
TYBA (English Literature)	2010-11	10	10	02	08	100
	1011-12	13	13	01	12	100
	2012-13	12	12	01	11	100
	2013-14	17	17	00	17	100
	2014-15	12	12	01	11	100
	2015-16	24	24	03	21	Result awaited

27 *Diversity of students:* All students from the home state.

28 *How many students have cleared national and state competitive examination?:* Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	36%
<i>PG to MPhil</i>	---
<i>PG to PhD</i>	---
<i>PhD to Post-Doctoral</i>	---
<i>Employed</i>	
• <i>Campus selection</i>	
• <i>Other than campus recruitment</i>	80%
<i>Entrepreneurship / Self - employment</i>	---

30 *Details of infrastructural facilities*

<i>a) Library</i>	Nil
<i>b) Internet facility</i>	01 computer with internet connection
<i>c) Classroom with ICT</i>	Common facility is used
<i>d) Laboratories</i>	NA

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:*

- Two-week Certificate Courses titled *Proficiency Course in English* in November 2013 and April 2014.
- Under the aegis of RUPELA – Ruparel English Literary Association, the following activities were undertaken:

2010-2011

- 28th August 2010 – screening of the film *Dead Poets' Society*.
- 27th September 2010 - The A.D. Shroff Memorial Elocution Competition
- Screening of the films *Animal Farm* and *Pygmalion* were screened on 4th September 2010 and 17th January 2011 respectively.
- Students and teachers attended a performance of *Ain Vasantat Ardhya Ratri* – a Marathi adaptation of Shakespeare's *Midsummer Night's Dream* at University of Mumbai on 29th March 2011.

2011-2012

- Film screenings
 - *Children of Heaven* on 8th August, 2011
 - *Shakespeare in Love* on 26th August, 2011
 - *A Midsummer Night's Dream* on 1st September, 2011
 - *The Importance of Being Earnest* on 4th February, 2012
- *Birds and Little Bards* – the weekly poetry club
- *Versify* – a poetry writing competition, organised by the Poetry Club.
- The 47th Annual A.D. Shroff Memorial Elocution Competition - 26th September, 2011.
- Visit to Kala Ghoda Art Festival.

2012-2013

- Screening of the film *The Country Girl* - 23rd August 2012.
- Talk on various aspects of film-making by Ms. Gargee Kulkarni - 20th December 2012.
- 48th A. D. Shroff Memorial Elocution Competition - 2nd July 2012.
- Students of TYBA visited Kirti College to attend a lecture on the poetry of W. B. Yeats on 19th January 2013.
- Educational trip to Kala Ghoda Arts Festival-February 2013.
- Presentation of short films and documentaries made by 33 students from SYBA as a part of their Mass Communication assignment.

2013-2014

- Story-writing competition -Tell a Tale - 1st December 2013.
- 49th A. D. Shroff Memorial Elocution competition- 5th December 2013
- Visit to Prithvi Theatre by the students of TYBA to watch a performance of the play *The Glass Menagerie* -12th December 2014
- Screening of a documentary film on sex and violence in Vijay Tendulkar's plays on 21st January 2014
- 10th to 15th February 2014 - Movie Marathon - screening of the films *Jaane Bhi Do Yaaron*, *The World of Hugo*, *The Kid*, *The Blue Umbrella*, *Mirrors*
- A one-day intra-collegiate English Literature festival *Carpe Diem* on 20th February 2014.

The festival included the following events: A performance of the short play *Apotheosis*, Bolly Translate, Treasure Hunt, Just A Minute, Pick and Relay Writing, Words-worth Quiz, Insta-Tags and a Theatre Workshop by Ms. Kiran Pawaskar.

2014-2015

- Field visit to the press of the Marathi newspaper Tarun Bharat for the students of SYBA (Mass Communication) on 22nd July 2014.
- Visit to Shivaji Mandir by students of TYBA to watch the Marathi play *Moruchi Mawshi* on 24th July 2014.
- 50th Annual A.D Shroff Memorial English Elocution Competition on 25th July 2014.

- Felicitation of successful students of TYBA in the University examination of March 2014-31st July 2014.
- Screening of the film *The Importance of Being Ernest* - 15th November 2014.
- Commencement of Poetry Club activities-13th December 2014.
- Visit to Ramakrishna Mission, Khar by students of TYBA and FYBA (English Literature) to mark the birth anniversary of Swami Vivekanda - 12th January 2015.
- Mini Movie Marathon – Screening of the films *A Few Good Men*, *How to Train Your Dragon* and *Pushpak* from 21st – 23rd January 2015.
- *Carpe Diem* – the one-day intra-collegiate English Literary Festival on 4th February 2015. Five events were organised viz. *Hogwarts via Ruparel*, *Magical Verse*, *Script to Screen*, *Once Upon A Time*, *Being Sherlock*.
- Field visit to Kala Ghoda Arts Festival - 13th February 2015.

2015-2016

- 'Writers Block' - wall magazine by students of SYBA and TYBA.
- 51st A.D. Shroff Memorial Elocution Competition – 14th September, 2016.
- 29th January 2016: Carpe Diem – Intra-collegiate Literary Festival.
- 10th February 2016: a lecture on *Body Politic in Shakespeare's plays* by Prof. Conrad Coelho, organised in association with Polis.

33 *Teaching methods adopted to improve student learning:*

- Lectures combined with interactive methods like group discussions, debates and classroom presentations by students.
- Regular assignments and detailed feedback about the assignments
- Regular class tests
- List of reference materials
- Film screenings and theatre visits

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities:* Nil

35 *SWOC analysis of the department and Future plans:*

STRENGTHS:

- Co-operation and teamwork among department members.
- Results have been almost 100% for the past five years.
- Students are motivated to pursue higher studies.
- Student participation in RUPELA – Ruparel English Literary Association and the English Literary Fest – Carpe Diem.

WEAKNESSES:

- The Language Lab software needs to be utilised effectively.
- Building an industry interface.

OPPORTUNITIES:

- Offering career-oriented short courses.
- Providing soft skills training.
- Setting up of Department Library to foster student research.
- Creating interdepartmental interactions.
- Motivating students to prepare for competitive examinations.

CHALLENGES:

- Bridging the gap created by low entry level language skills.
- Improving the reading habits of students.
- Creating awareness about career options for students of English.
- Offering remedial courses.

FUTURE PLANS:

- Conducting a short term course in soft skills.
- Conducting a bridge course to improve the language skills of students.
- Organising career guidance lectures for students of English literature.
- Motivating students to participate in Avishkar Research Convention.

EVALUATIVE REPORT OF THE DEPARTMENT OF GEOGRAPHY

- 1 *Name of the department* Geography
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Geography is offered upto SYBA level
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	01	01

- 10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Deepali Bhide	MA, SLET	Assistant Professor	Geography	12 years	NA

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher* 06 lectures conducted by a faculty on CHB
- 13 *Student – teacher ratio (program wise)*

FYBA: Average 20:1

SYBA: Average 15:1

FYBCom: Average 120:1

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* Nil

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Deepali Bhide	MA, SLET

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.*

Ms. Deepali Bhide received a research grant of Rupees Twenty Thousand for a Minor Research Project from the University of Mumbai for the academic year 2011-2012. The title of the research project is ‘Socio-spatial study of women from the unorganised sector – A case of Mumbai city’. Project No. 153-Geogr.

18 *Research Centre / facility recognized by the University:* Nil

19 *Publications*

- *Publication per faculty* 02
- *Number of papers published in peer reviewed journals (national / international) by faculty and students* Faculty: 02
Students: 01
- *Chapter in Books* 02
- *Books with ISBN/ISSN numbers* Co-authored: A book on Environmental Studies taught at FYBCom (as per revised syllabus implemented from 2012-2013) published by Himalaya Publishers, Mumbai.

Semester I: ISBN No. 978-93-5051-867-0 (Unit
III)Semester II: ISBN No. 978-93-5097-265-6 (Unit
IV)Contributed one unit per semester

20 *Area of consultancy and income generated* Nil

21 *Faculty as members in a) National committee b) International committee c) Editorial boards:* Nil

22 *Student projects* Nil

23 *Awards / Recognitions received by faculty and students*

Faculty : 01 Students: 03

24 *List of eminent academicians and scientists / visitors to the department*

Name of academician/scientist/visitor	Programme
Dr. Ajay Dhar, Senior Scientist, Indian Institute of Geo-magnetism, New Panvel.	A guest lecture cum presentation on 'Antarctica' organised on 14th January, 2012.
Ms. Rashmi Joshi - working with the Stree Mukti Sanghatana, Mumbai's environment related programme called as Parisar Vikas.	A guest lecture on the topic of 'Waste Management' was held on 15th January, 2014.

25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise:* Students opting for Geography at FYBA level continue with same at SYBA level.

27 *Diversity of students* All students from the same state.

28 *How many students have cleared national and state competitive examination?* Nil

29 *Student progression:* Since Geography is offered as optional course till SYBA, the students continue with other courses at TYBA.

30 *Details of infrastructural facilities*

a) Library Nil

b) Internet facility Nil

c) Classroom with ICT Common facility is used

d) Laboratories Nil

- 31 Number of students receiving financial assistance from college, university, government or other agencies: Nil
- 32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

**Programmes conducted by ‘GENESIS’ THE GEOGRAPHY ASSOCIATION
(2010-2016)**

2010-2011	
Screening of documentary film ‘Prakashvaata’	18th September, 2010
Visit to Indian Meteorological Department, Santacruz, Mumbai	16th December, 2010
Inter-collegiate quiz Competition	14th January, 2011
2011-2012	
Screening of documentary film ‘From Antwerp to Ghana’	August, 2011
Screening of documentary film ‘A Fate Worse than Floods’	15th September, 2011
Visit to the Maharashtra Nature Park, Mahim, Mumbai	12th January, 2012
A guest lecture/presentation on ‘Antarctica’ by Dr. Ajay Dhar	14th January, 2012
Inter-collegiate quiz Competition	31st January, 2012
2012-2013	
Visit to Vasai fort	18th August, 2012
Screening of a documentary film ‘From Antwerp to Ghana’	8th September, 2012
Screening of two documentary films titled ‘The Story of Stuff’ and ‘Road to Shanghai’	14th January, 2013
Visit to Indian Meteorological Department Colaba, Mumbai	5th February, 2013

Inter-collegiate quiz Competition	12th February, 2013
2013-2014	
A nature trail to Sanjay Gandhi National Park, Borivali	9th August, 2013
A talk cum presentation by Ms. Rashmi Joshi	15th January, 2014
2015-2016	
Visit to The Rocks and Minerals Exhibition conducted by the Extra-Mural Studies Department, University of Mumbai	17th December, 2015
Inter-collegiate quiz Competition	13th February, 2016

33 *Teaching methods adopted to improve student learning*

Effective use of maps and ICT.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities:* Nil

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- One Person Department
- Research
- Use of traditional and modern teaching methods
- Being a multi-disciplinary subject, varied career options are available to the students

WEAKNESSES:

- Managing the curriculum and co-curricular activities is difficult as it is a single person department
- Geography – optional subject only at FYBA and SYBA levels
- Limited combination of subjects with Geography
- No separate laboratory and library to display maps, charts, atlases etc.

OPPORTUNITIES:

- Lush green campus- eco-friendly projects like rainwater harvesting, waste management

CHALLENGES:

- To extend the subject upto TYBA level
- To get students with a sound academic background in the subject
- Weather instruments
- Use of ICT

FUTURE PLANS:

- To extend the subject upto TYBA level
- To get students with a sound academic background in the subject
- To focus more on research both by the faculty and the students

EVALUATIVE REPORT OF THE DEPARTMENT OF HISTORY

- 1 *Name of the department* History
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Bachelor of Arts (History)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	Nil	Nil
Asst. Professors	2	2

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Mr. Arvind Ganveer	M.A.M Phil	Asst. Professors	Modern India	20	Nil
Dr. Rekha V. Gore	M.A.Ph .D.	Asst. Professors	Modern India subaltern	10	Nil

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher :* Nil
- 13 *Student – teacher ratio (program wise)*

Class	Students	Teachers
FYBA	110	1
SYBA	75	2
TYBA	40	2

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled* Nil

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Arvind Ganveer	M.A.M Phil
Dr. Rekha Gore	M.A.Ph .D.

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.* Nil

18 *Research Centre / facility recognized by the University* Nil

19 *Publications*

- *Publication per faculty* Dr. Rekha Gore - 02

- *Number of papers published in peer reviewed journals (national / international) by faculty and students: 02*

Number of papers published in peer reviewed journals (national / international) by faculty and students, Number of publications in International Database, Monographs, Chapter in Books, Books edited, Citation Index, SNIP, SJR, H-index:
Nil

- *Impact factor* ISSN No-2231-5063
(Impact factor 3.4)

20 *Area of consultancy and income generated* Nil

21 *Faculty as members in a) National committee b) International committee c) Editorial boards*

22 *Student projects:* Nil

23 *Awards / Recognitions received by faculty and students:* Nil

24 *List of eminent academicians and scientists / visitors to the department:* Nil

25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise :*

BA	Male	Female	Total
2010-11	18	25	43
2011-12	21	22	43
2012-13	12	25	37
2013-14	14	27	41
2014-15	26	18	44
2015-16	15	34	49

27 *Diversity of students*

Students enrolled are from same state

28 *How many students have cleared national and state competitive examination?* Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	40%
<i>PG to MPhil</i>	-
<i>PG to PhD</i>	-
<i>PhD to Post-Doctoral</i>	-
<i>Employed</i> <ul style="list-style-type: none"> <i>Campus selection</i> <i>Other than campus recruitment</i> 	-
<i>Entrepreneurship / Self - employment</i>	-

30 *Details of infrastructural facilities*

a) Library

College library caters to the need of the students for reference books and journals.

b) Internet facility

Desktops with internet connectivity in Common Faculty Room.

c) Classroom with ICT

Common facility is used.

d) Laboratories

NA

31 *Number of students receiving financial assistance from college, university, government or other agencies:*

Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:*

- Workshop on Modi Script
- Lecture on Water Resources

33 *Teaching methods adopted to improve student learning*

ICT used in teaching, journals provided for reference, usage of maps.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Dr. Rekha Gore is NSS Programme Officer.

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- Two full time faculty
- Faculty members are examiners, competent in research activities
- Faculty contributed to NSS participation of students in inter-collegiate events
- Educational tours or heritage walk

WEAKNESS:

- No six papers for TYBA (History)
- Students leave the college for History (Majors)

OPPORTUNITIES:

- TYBA (History) with six papers
- Organisation of seminar
- Use of PPT and ICT
- Motivate students in research

CHALLENGES:

- Departmental museum with antiquities

EVALUATIVE REPORT OF THE DEPARTMENT

INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

- 1 *Name of the department* Information Technology and Computer Science
- 2 *Year of establishment* 2000
- 3 *Names of programmes*
 - Bachelor of Science (Info. Technology)
 - Bachelor of Science (Computer Science)
 - Master of Science (Info. Technology)
 - Master of Science (Computer Science)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	10	10

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Mr. Mandar Bhawe	M.Sc. (I.T.)	Asst. Prof.	Information Technology	09	NA
Ms. Swarupa Gogate	M.C.S.	Asst. Prof.	Computer Science	11	NA
Ms. Smrutika Barapatre	M.Sc.(Physics), M.C.A.	Asst. Prof.	Physics	10	NA
Ms. Pooja Tambe	M.Sc. (Comp.Sci.)	Asst. Prof.	Computer Science	08	NA
Ms. Priti Kharbe	M.Sc. (Comp.Sci.), B. Ed. (Sci./Maths)	Asst. Prof.	Computer Science	05	NA
Mr. Ameya Joshi	M.Sc.(Physics), PGDVLSI (CDAC-Mumbai)	Asst. Prof.	Physics	02	NA

Ms. Samrudhi Thakur	M.Sc. (I.T.)	Asst. Prof.	Information Technology	1.5	NA
Ms. Prachi Samant	M.Sc.(Comp.Sci.)	Asst. Prof.	Computer Science	01	NA
Ms. Gandhalee Manohar	M.Sc.(Comp.Sci.)	Asst. Prof.	Computer Science	01	NA

11 *List of visiting faculty*

- Dr. Mukund Samgalikar
- Mr. Rajendra Patil
- Dr. Girish Tere

12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher (in Percentage)*

Name of the Faculty	F.Y. B.Sc (I.T.)	S.Y. BSc (I.T.)	T.Y. B.Sc (I.T.)	M.Sc. (I.T.) PART 1	M.Sc (I.T.) PART 2	F.Y. B.Sc (C.S.)	S.Y. BSc (C.S.)	T.Y. BSc (C.S.)	M.Sc. (C.S.) PART 1	M.Sc (C.S.) PART 2
Mandar Bhawe	-	-	90	70	72	-	-	-	-	-
Swarupa Gogate	-	-	92.25	77.67	-	-	-	-	80	-
Smrutika Barapatre	-	100	98.75	-	75	-	-	-	80	75
Priti kharbe	100	100	-	79	-	-	-	-	98	-
Pooja Tambe	93.75	-	-	-	-	-	80.56	88.64		
Ameya Joshi	95.14	-	-	-	-	91.43	-	-	-	
Samrudhi Thakur	-	100	77	-	-	-	92	56	-	-
Prachi Samant	100	100	81	-	-	99	69	91	-	-

13 *Student – teacher ratio (program wise)*

Programme	No. of Students	No. of Teachers	Student-Teacher Ratio
F.Y.BSc(I.T.)	105	5	21:1
S.Y.BSc(I.T.)	84	5	16.8 :1
T.Y.BSc(I.T.)	90	5	18 :1
M.Sc.(I.T.) - Part - I	18	4	4.5 :1
M.Sc.(I.T.) - Part - II	20	4	5 :1
F.Y.BSc (Comp.Sci.)	41	2	20.5:1
S.Y.BSc (Comp.Sci.)	33	3	11 :1
T.Y.BSc (Comp.Sci.)	37	4	9.25 :1
M.Sc.(Comp.Sci.) - Part -I	7	4	1.75 :1
M.Sc.(Comp.Sci.) - Part -II	12	4	3 :1

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled*

Post	Sanctioned	Filled
Lab Assistant	----	-----
Lab Attendant	----	04

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG :* Nil

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.* Nil

18 *Research Centre / facility recognized by the University:* Nil

19 *Publications*

- *Publication per faculty*

Name	Number of publications
Mr. Mandar Bhawe	01
Ms. Swarupa Gogate	01
Ms. Samrudhi Thakur	01
Mr. Ameya Joshi	01
Ms. Pooja Tambe	02

- 20 *Area of consultancy and income generated:* Nil
- 21 *Faculty as members in a) National committee b) International committee c) Editorial boards :* Nil
- 22 *Student projects*
- a) Percentage of students who have done in-house projects*
- in-house projects including inter departmental /program: 2%*
- b) Percentage of students placed for projects in organizations outside the institutions*
- projects in organizations outside the institutions : 98%*
- 23 *Awards / Recognitions received by faculty and students*
- Ms. Neha Kushe: District Level Award for Rock Climbing
 - Mr. Anup Thakur: Shiv Chhatrapati Puraskar
(Highest Sports Award conferred by Government of Maharashtra)
- 24 *List of eminent academicians and scientists / visitors to the department:* Nil
- 25 *Seminars / Conference / Workshops organized and the source of funding*

Title	Dates	
	From	To
Microsoft Training on information Security	1 st -Batch:	9 th October 2015
	08 th October 2015	
	2 nd Batch: 10 th October 2015	11 th October 2015
Python Workshop	19 th June 2015	19 th June 2015
J-Mol and G-Chem paint	1 st August 2015	1 st August 2015
Bio-Python	6 th January 2016	6 th January 2016
Exp Eyes	4 th February 2016	5 th February 2016
	15 th February 2016	17 th February 2016
Windows Azure	15 th February 2016	17 th February 2016
Workshop conducted on 'Virtualization' and 'Neural Networks' for M.Sc. IT Semester-III	25 th July 2014	26 th July 2014
Workshop conducted on 'Advanced Computer Network' for M.Sc. IT Sem-II	25 th January 2014	25 th January 2014
Workshop conducted for faculties on package MOODLE under IQAC program	June 2013	June 2013
Information Storage Management Certificate Course conducted by Mr. Mandar Bhawe for IT and CS students.	January 2012	January 2012
Seminar on "Remote Sensing and its application in real life" conducted by Dr. Hrishikesh Samant	6 th July 2010	6 th July 2010

- 26 *Student profile programme / course wise:* Details after SWOC (Point No. 35)
- 27 *Diversity of students*

Students enrolled to the course are from same state.

28 How many students have cleared national and state competitive examination?

- GATE : Mr. Nikhil Sonawane
- SET : Ms. Neha Kushe
- PhD : Ms. Neha Kushe

Mr. Niranjan Joshi cleared CDS examination and now commissioned as Captain in Indian Army

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	50%
<i>PG to MPhil</i>	-
<i>PG to PhD</i>	---
<i>PhD to Post-Doctoral</i>	---
<i>Employed</i> <ul style="list-style-type: none"> • <i>Campus selection</i> • <i>Other than campus recruitment</i> 	45%
<i>Entrepreneurship / Self - employment</i>	---

30 *Details of infrastructural facilities*

a) Library

b) Internet facility

Two internet connection lines FTTH connectivity with the speed of 40 mbps each, shared among the entire college and laboratories through widely spread optical fiber network throughout the campus.

c) Classroom with ICT

Room No. 301 is equipped as mini auditorium with ICT facility of Smart Board.

Room No. 402 has been developed into an e-room with the help of funding received from Department of Science and Technology under the FIST grant.

d) Laboratories

Lab Name	No. of Machines	Details
401	30	These laboratories are used for Information Technology, Computer Science
404	30	
405	20	

406	16	and Electronics practical.
407	23	

- 31 *Number of students receiving financial assistance from college, university, government or other agencies:*

Students from reserved category are given fee waiver as per the norms defined by Department of Social Welfare.

- 32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:*

MOU has been signed with IIT, Bombay to popularize Open Source Technology and the various programmes conducted are listed above in point no. 25

- 33 *Teaching methods adopted to improve student learning*

Conventional as well as ICT based Teaching – Learning, like use of PowerPoint presentations, simulations, online video lectures.

- 34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Nil

- 35 *SWOC analysis of the department and Future plans*

- **STRENGTHS**

- Supportive Teaching and Non-teaching staff
- Adequate Computer-IT Infrastructure
- Young and dynamic staff members
- Dept. members working at University level with varied responsibilities
- Academic Tie-Up with Industry

- **WEAKNESSES**

- Non NET/SET Staff members
- Research activities not conducted
- Formal mode of communication is not observed
- Various activities conducted are not documented

- **OPPORTUNITIES**

- Initiation of Industry oriented Certifications program
- Unified IT infrastructure
- Initiation of new education concepts. Ex-MOOCs
- Creation of E-Contents

- **CHALLENGES**

- Improvement of soft skills in students and faculties
- Implementation of Content Management or LMS
- Orientation of students towards advanced studies

- **BEST PRACTISES**

- Students given total liberty for selection of project topics
- Motivating them to work on real-world problems

- **FUTURE PLANS**

- Organizing workshops/training program for NET/SET examination.
- Scheduling of training program on Storage Technology which is a venture with EMC2
- Motivating M.Sc. students for the research projects or Interdisciplinary Projects for which workshops & guidance lectures can be organized.
- More emphasis on the Department records, student analysis, result projection, remedial coaching.
- In addition to the existing academic tie-ups with industry the new avenues or ventures can be explored for industry academic tie-up.
- Proposing the establishment of examination/test center for examinations like TOEFL, GRE, GMAT or other professional certification in collaboration with Pearson-Vue and Thomson Prometric.

26. *Student profile programme/course wise:*

Graduate Courses:

Class		F.Y.B.Sc (I.T.) Sem-I	F.Y.BSc c (I.T.) Sem-II	S.Y.BSc(I.T.) Sem-III	S.Y.BSc(I.T.) Sem-IV	T.Y.BSc(I.T.) Sem-V	T.Y.BSc(I.T.) Sem-VI	T.Y.BSc(C.S.) Sem-V	T.Y.BSc(C.S.) Sem-VI
2010-2011	Applications Received	***		75		62		53	
	Selected	***		75		62		53	
	Enrol led	M	28	49		17		32	
		F	37	26		45		21	
		Total	65	75		62		53	
	Passing %	61.54%	46.15%	78.67%	92.00%	73.75%		82.69%	
2011-2012	Applications Received	***		69		73		57	
	Selected	***		69		73		57	
	Enrol led	M	52	23		46		30	
		F	56	46		27		27	
		Total	108	69		73		57	
	Passing %	62.04%	64.49%	100.00%	97.10%	73.75%		73.21%	
2012-2013	Applications Received	837		109		67		35	
	Selected	117		109		67		35	
	Enrol led	M	54	52		22		15	
		F	62	57		45		20	
		Total	116	109		67		35	
	Passing %	48.28%	43.10%	73.39%	74.31%	69.69%		72.73%	
2013-2014	Applications Received	628		109		112		35	
	Selected	101		109		112		35	
	Enrol led	M	50	47		53		16	
		F	47	65		59		19	
		Total	97	109		112		35	
	Passing %	62.89%	72.16 %	85.32%	72.48%	74.00%		45.71%	

2014-2015	Applications Received		838		97		107		46	
	Selected		99		97		107		46	
	Enrol led	M	41		51		46		29	
		F	49		46		61		17	
		Total	90		97		107		46	
	Passing %		50.00%	52.22 %	72.16%	57.73%	79.05%			
2015-2016	Applications Received		671		84		89		37	
	Selected		107		84		89		37	
	Enrol led	M	57		43		42		14	
		F	48		41		47		23	
		Total	105		84		89		37	
	Passing %		32.38%		41.67%					

Post-Graduate Courses:

Class		M.Sc. (I.T.) Sem-I	M.Sc. (I.T.) Sem-II	M.Sc. (I.T.) Sem-III	M.Sc. (I.T.) Sem-IV	M.Sc. (C.S.) Sem-I	M.Sc. (C.S.) Sem-II	M.Sc. (C.S.) Sem-III	M.Sc. (C.S.) Sem-IV	
2010-2011	Applications Received		168		17		55		19	
	Selected		18		17		19		19	
	Enrolled	M	06		06		12		08	
		F	10		11		07		11	
		Total	16		17		19		19	
	Passing %		92.85%				84.62%			
2011-2012	Applications Received		156				62			
	Selected		18				14			
	Enrolled	M	NA		NA		NA		NA	
		F	NA		NA		NA		NA	
		Total	NA		NA		NA		NA	
	Passing %		100.00%				90%			
2012-2013	Applications Received		146		13		48		13	
	Selected		17		13		20		13	

	Enrolled	M	08	04	09	08
		F	09	09	11	05
		Total	17	13	20	13
	Passing %		50.00%		84.62%	
2013-2014	Applications Received		116	16	56	17
	Selected		19	16	15	17
	Enrolled	M	07	06	10	07
		F	12	10	05	10
		Total	19	16	15	17
	Passing %		86.67%		82.35%	
2014-2015	Applications Received		122	19	42	18
	Selected		20	19	13	18
	Enrolled	M	06	07	11	12
		F	14	12	01	06
		Total	20	19	12	18
	Passing %		89.47%		26.67%	
2015-2016	Applications Received		61	20	21	12
	Selected		18	20	07	12
	Enrolled	M	08	06	04	11
		F	10	14	03	01
		Total	18	20	07	12
	Passing %					

EVALUATIVE REPORT OF THE DEPARTMENT OF MANAGEMENT STUDIES

- 1 *Name of the department* Management Studies
- 2 *Year of establishment* June 2006
- 3 *Names of programmes* Bachelor of Management Studies
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	--	
Associate Professors	--	--
Asst. Professors	--	08

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Prathma Nemane	MCom, PGDFM, SET, Diploma in Tax Management	Assistant Professor	Taxation, Finance, Accounting	11	-
Anjana Bhowmik	MA (Philosophy), SET, Pursuing PhD	Assistant Professor	Business Communication, Business Ethics , Philosophy	6	-
Corina Dsouza	MA Geography, MBA (Appeared for Semester –IV)	Assistant Professor	Human Resource, Geography	8	-
Rachana Chawda	M.com (Accountancy) MBA (Finance), MPhil PGD in Financial Management, PGD in International Business Operations, NET, LLB (appeared for Sem VI) PDG in Comparative Mythology	Assistant Professor	Accountancy and Finance	8	-

Vibha Dicondwar	MA Economics BSc-Statistics, R programming Language, SAS	Assistant Professor	Economics	3	-
Abha Pande	MA (Philosophy)	Assistant Professor	Philosophy	1	-
Hitesh Ramnathkar	MCA	Assistant Professor	Computers	3	-
Yamini Sawant	MBA-Finance	Assistant Professor	Finance	2	-
2015-16					
Rachana Chawda	M.com (Accountancy) MBA (Finance), MPhil PGD in Financial Management, PGD in International Business Operations, NET, LLB (appeared for Sem VI) PDG in comparative mythology	Assistant Professor	Accountancy and finance	9	None
Vibha Dicondwar	MA Economics Bsc-Statistics, R programming Language, SAS	Assistant Professor	Economics	5	None
Hitesh Ramnathkar	MCA	Assistant Professor	Computers	2	-
Yamini Sawant	MBA-Finance	Assistant Professor	Finance	2	-
Shivani Mayekar	MA- Philosophy	Assistant Professor	Philosophy	1	-
Bhavna Suleria	MA- Psychology	Assistant Professor	Psychology	1	-
Prachi Puro	M.com (Accountancy)	Assistant Professor	Accountancy and finance	0.5	-
Pramod Parte	M.com	Assistant Professor	Accountancy and finance	2	-

11 *List of visiting faculty*

Year	Name of the faculty
2014-15	<ul style="list-style-type: none"> Samidha Chheda - Business and Industrial Law Priti Joshi - Productivity and Quality Management
2015-16	<ul style="list-style-type: none"> Samidha Chheda - Business and Industrial Law Shweta Apte - Principle of Marketing, Research Methodology

- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*

Name of the Faculty	FYBMS	SYBMS	TYBMS
Rachana Chawda	-	100	100
Vibha Dicondwar	100	100	100
Hitesh Ramnathkar	100	-	-
Yamini Sawant	-	100	100
Shivani Mayekar	100	-	100
Bhavna Suleria	100	100	100
Prachi Puro	100	100	-
Pramod Parte	100	100	100
Samidha Chheda	100	-	-
Shweta Apte	-	100	100

- 13 *Student – teacher ratio (program wise)*

Programme	No. of Students	No. of Teachers	Student-Teacher Ratio
F.Y.B.M.S.	113	7	16:1
S.Y.B.M.S.	113	6	16:1
T.Y.B.M.S.	111	7	15:1

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:*
Nil

- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

- Rachana Chawda – M. Phil (May 2009)
- Shivani Mayekar - M. Phil (submission of Dissertation in April 2016)

- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received* Nil

- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.*
Nil

- 18 *Research Centre / facility recognized by the University* Nil

- 19 *Publications*

- *Publication per faculty* Rachana Chawda and Shivani Mayekar- Corporate Social Responsibility in Indian Mythology – ISBN13: 978-93-85880-98-8 (2015 – 2016)

- *Number of papers published in peer reviewed journals (national / international) by faculty and students, Number of publications in International Database, Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index* Nil

20 *Area of consultancy and income generated* Nil

21 *Faculty as members in a) National Committee b) International Committee c) Editorial boards*
Nil

22 *Student projects*

a) Percentage of students who have done in-house projects

- As a part of TYBMS- Semester-V syllabus 100% students prepare project on Management Topics.
- Avishkar Research Convention : Two groups of SYBMS students participated at University level competition held on 25th November, 2014 at Khalsa College.

b) Percentage of students placed for projects in organizations outside the institutions: Nil

23 *Awards / Recognitions received by faculty and students:* Nil

24 *List of eminent academicians and scientists / visitors to the department*

2010-11	<ul style="list-style-type: none"> • Captain Tapan Kandalgaonkar, Sales Manager, Aditya Birla Group of Companies • Mr. Sachinanda Shukla, Senior Economist, Eanam Securities • Sajit Nair , project head , operations, EB Group • Mr. Sunil Thakur, HR Manager • Mr. Rachit Gandhi, Trainer, Art Of Living
2011-12	<ul style="list-style-type: none"> • Mr. Kunal Bothra, Manager at LKP Securities Ltd • Mr. Charnya Krishnan, Economist, UTI Bank • Mr. Ganesh Shangaug, MD, SMS Finacial Pvt. Ltd
2012-13	<ul style="list-style-type: none"> • Mr. Sameer Anvekar • Mr. Rajesh Tambe, Fundamentalst Analyst in Zee news • Mr. Ganesh Shangaug, MD, SMS Finacial Pvt. Ltd • Mr. Parag Chitale
2013-14	<ul style="list-style-type: none"> • Mr. Ganesh Shanbag of SMS Financial Services Ltd • Ms. Sandhya Almelkar • Mr. Raghunath Medge of Nutan Tiffin Services • Ms. Gauri Deshmukh, Head- Human Resource, Bank of America and Merill Lynch • Mr. Joshi, faculty from BSE • Mr. Radhakrishnan Pillai, eminent author of the book 'Corporate Chanakya'
2014-15	<ul style="list-style-type: none"> • Dr. Seethalexmy from SIES college • Mr. Rohit Bagaitkar, Trainer and Consultant, Proprietor of Leadscope • Mr. Rajesh Tambe , Fundamentalst Analyst in Zee news
2015-16	<ul style="list-style-type: none"> • Sachin Phansikar, Vice President, Advertising, Business Standard • Dr. Anagha Mandgaokar, Marathi Department of D. G. Ruparel College • CA Nitin Kulkarni, Accountancy Department of D. G. Ruparel College

	<ul style="list-style-type: none"> • Ms. Anuradha Satyanarayan, Career Counsulator • Dr. Manoj Bhatavdekar, consulting psychiatrist • Dr. Hemant Adarkar • Mr. Rajesh Tambe , Analyst in Zee news
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25 *Seminars / Conference / Workshops organized the source of funding*

- A Session by Ms. Anagha Mandgaokar on *Nonverbal communication- Shabdan Cha Pali kade* for FYBMS students on 21st Aug. 2015.
 - On 20th October 2015 a one-day conference on *Development of Life Skills* was held
 - Inauguration and key note address by Mr. Subhash Dandekar
 - *Career Opportunities, the Nature of Competitive Examinations and its preparation, touching upon the need to develop overall Personality for good career growth* by Anuradha Satyanarayan
 - *Say YES to Emotions* by renowned consulting psychiatrist Dr. Manoj Bhatavdekar
 - Lecture on *How to be an effective Professional* by Dr. Hemant Adarkar
- Funding was through sponsorship and participation fee collected from the students.

26 *Student profile programme / course wise*

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			M	F	
2012-13	665	113	37	76	85.29
2013-14	537	120	82	38	88.88
2014-15	810	120	69	51	75.89
2015-16	709	116	68	48	Result awaited

27 *Diversity of students*

Students enrolled are from same state

28 *How many students have cleared national and state competitive examination?* Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	40%
<i>PG to MPhil</i>	Nil
<i>PG to PhD</i>	Nil
<i>PhD to Post-Doctoral</i>	Nil
<i>Employed</i> <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	4% 35% (approx.)
<i>Entrepreneurship / Self - employment</i>	5%

- 30 *Details of infrastructural facilities*
- | | |
|------------------------------|---|
| <i>a) Library</i> | Common college library |
| <i>b) Internet facility</i> | Internet facility in staff room for faculty |
| <i>c) Classroom with ICT</i> | 5 laptops and 3 projectors |
| <i>d) Laboratories</i> | One laboratory with 60 computers |
- 31 *Number of students receiving financial assistance from college, university, government or other agencies* Nil
- 32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

2010- 2011

Activities and Guest Lectures:

- i. "Practice of Management" by Captain Tapan Kandalgaonkar, Sales Manager, Aditya Birla Group Of Companies on 5th October, 2010
- ii. 'Project Finance' by Mr. Sachinanda Shukla, Senior Economist, Eanam Securities on 18th December 2010
- iii. "Youth And Entrepreneurship" by Sajit Nair, Project Head, Operations, EB Group on 19th January 2011
- iv. "Performance Management" By Mr. Sunil Thakur, HR Manager on 22nd January, 2011
- v. "Soft Skills" By Mr. Rachit Gandhi, Trainer, Art of Living on 12th February, 2011

Industrial Visits:

- i. Visit to Daman and Silvassa from 31st January to 2nd February 2011 for SYBMS. 3 industries were visited.
- ii. Visit to Ahmedabad from 9th to 13th March 2011 for FYBMS students
Three industries were visited AMUL- Kaira District Co-operatives Milk Producers Union Ltd., Mudra Institute of Communications, Nirma Ltd.

2011-12

Activities and Guest Lectures:

- i. "Careers in finance" by Mr. Kunal Bothra, Manager at LKP Securities Ltd on 20th August 2011
- ii. "Mock group Discussion conducted by Mr. Parag Chitale on 13th September, 2011
- iii. "Personality Development:" by Mr. Charnya Krishnan, Economist, UTI Bank on 17th September, 2011
- iv. "Analysis of Balance Sheet" by Mr. Ganesh Shangaug, MD, SMS Financial Pvt. Ltd, on 11th February, 2012

Industrial Visits:

Visit for SYBMS to Nasik and Saputara from 22nd to 24th September, 2011- Industries visited - CEAT Tyres, Parihanse.

Visit to Kerala for TYBMS from 29th December 2011 to 4th January 2012. - Industries visited: Cochin Port Trust, Lundur Coir Industries

Visit to Aurangabad for FYBMS from 16th to 18th February 2012 - Industries visited- Renu Prints Pvt. Ltd., Forbs and company Ltd., Ellora caves

2012-13

Activities and Guest Lectures:

- i. Mr. Sameer Anvekar delivered a lecture on “Introduction to Financial Markets” on 27th July 2012
- ii. Mr. Rajesh Tambe delivered a lecture on “Investment Analysis” on 13th December 2012
- iii. Mr. Ganesh Shanbaug gave a lecture on “How to Infer from Business Newspaper” on 18th January 2013
- iv. Mr. Parag Chitale delivered a lecture on ‘Personality Development’ on 20th February, 2013.
- v. SYBMS students did mini research projects and presented between 5th to 9th March 2013
- vi. A group of seven students ran a business for a month. The activity was initiated and guided from 1st January to 31st January 2013.
- vii. Group discussion on impromptu topics conducted by Ms. Anjana Sarkar between 10th and 15th September, 2012
- viii. 28th January to 2nd February 2012 was celebrated as environmental activities week wherein FYBMS students presented working model on floods of 26th July, Green Banking, Deforestation, tourism, tidal energy under the guidance of Ms. Corina Dsouza

Industrial Visits:

- i. Visit of FYBMS students to Silvasa from 2nd to 4th October, 2012. Industries visited Sudhir Generator, Parle G, Alok Textile Industries
- ii. Visit of SYBMS Students to Pune from 22nd- 23rd January 2013 Industries visited- Katraj Dairy, DSK Toyota Service Center
- iii. Visit of TYBMS students to Hyderabad from 26th February to 2nd March 2013. Industries visited: HMT Bearings and Khaitan Fan Ltd, Coca Cola in Hyderabad.

2013-14

Activities and Guest Lectures:

- i. 2nd week of February 2014 was celebrated as environmental activities week whereby FYBMS Students presented working model on Vermiculture, extinction of animal species in Antarctica and Electronic Waste under the guidance of Ms. Corina Dsouza
- ii. Ms. Priti Joshi conducted PPT presentations on ‘Production Management and Material Management’ for SYBMS students between 2nd -14th September, 2013
- iii. Role play activities by SYBMS students on various issues and stages of ‘Export Import Procedure And Documentation’ was held between 17th and 24th February 2014 under the guidance of Ms. Rachana Chawda
- iv. Mini Research project activity was given to SYBMS students by Ms. Rachana Chawda, between 10th -19th February, 2014.
- v. Group Discussion, Vocabulary Building Games, Quiz Sessions conducted for FYBMS students by Ms. Anjana Sarkar on 10th- 15th September 2012.

- vi. TYBMS students in the subject of Entrepreneurship ran a business for a month where they make, label, package and sell a product, and submit the report under the guidance of Ms. Corina D'Souza on 4th- 9th February 2013.
 - vii. On 17th July, 2013, Mr. Ganesh Shanbag of SMS Financial Services Ltd, delivered lecture on "Practical Analysis of Balance Sheet".
 - viii. On 23rd July, 2013, a panel of Doctors from Shushrusha hospital, delivered lecture on "Anemia Awareness."
 - ix. On 2nd August, 2013, Ms. Sandhya Almelkar, delivered talk on "Goal Setting" for SYBMS students.
 - x. On 19th August, 2013, Mr. Raghunath Medge of Nutan Tiffin Services, delivered talk on "Practices followed by Mumbai Dabbawalla."
 - xi. On 23rd August, 2013, Ms. Gauri Deshmukh, Head- Human Resource, Bank of America and Merrill Lynch, delivered talk on "Performance Appraisal, Compensation and Career Development."
 - xii. On 30th August, 2013, Ms. Sandhya Almelkar, delivered talk on "Numerical Skills" for FYBMS students.
 - xiii. On 20th September, 2013, Ms. Sandhya Almelkar, delivered talk on "Study Skills" for academically weak students of FYBMS and SYBMS.
 - xiv. On 21st February, 2014, Mr. Joshi, faculty from BSE, delivered a talk on 'Investment Awareness for Youth.'
 - xv. On 24th February, 2014, Mr. Radhakrishnan Pillai, eminent author of the book 'Corporate Chanakya', delivered a talk on the topic - Leadership.
- Three Industrial Visits at Palghar for FYBMS; Wada for SYBMS and Nashik for TYBMS were arranged to get them experience of industrial environment. The details are as follows:
 - Two industries were visited by FYBMS students in Palghar, Thane viz. Sundaram Multipap Pvt. Ltd and Bhulani Steels Ltd on 31st August, 2013.
 - A Visit to Jawaharlal Nehru Library for SYBMS was arranged by Ms. Rachana Chawda, from 22nd January, 2014 to 27th January, 2014, to inculcate research ability.
 - Two industries were visited by SYBMS students in Wada, Thane viz. Paper industries and Krishi Yantriki Udyog on 8th February, 2014.
 - Two industries were visited by TYBMS students in Nashik viz. Parle G and Klasspack Ltd. from 13th March to 14th March, 2014

2014-15

Activities and Guest Lectures:

- i. A lecture for Teachers Development Program was held on "How To Write Research Paper" by Dr. Seethalexmy from SIES College on 14th March 2015
- ii. For overall student development, various programs were initiated to enhance their soft skills and acquaint them with various industries. The details are listed below :
- iii. Personality Development Program – Mr. Rohit Bagaitkar, Trainer and Consultant, Proprietor of Leadoscope, conducted FOUR sessions from 30th June, 2014 to 12th July, 2014 on Goal Setting, Attitude Development, Presentation Skills and Team building.

- iv. Industry Trends and Analysis – Mr. Rajesh Tambe conducted TEN sessions from 19th July to 20th September, 2014 on various sectors viz. Automobile, Retail, Pharmaceutical, Telecom, Metal, banking, NBFC, Cement, Engineering, Capital Goods, Realty and Construction, Power, Entertainment, Information Technology.

- Avishkar Research Convention:

Orientation Lecture was conducted by Dr. Minakshi Gurav on 18th July, 2014 at 11.30 am. Two Groups of SYBMS participated at University level competition held on 25th November, 2014 at Khalsa College.

Industrial Visits:

One day Industrial Visits were arranged for FYBMS and SYBMS students to get them experience of industrial environment. The details are as follows:

100 Students of FYBMS visited Camlin industry located in Tarapur on 21st February, 2015

100 Students of SYBMS visited Blue Star Company located at Silvassa on 2nd August, 2014.

2015-16

Activities and Guest Lectures:

- An interactive session was held in 2nd week of June 2015 on “ Management in 21st century- challenges” by Sachin Phansikar (Vice President, Advertising, Business Standard)
- A session by Prof. CA Nitin Kulkarni on Investment and screening of short film on ‘Money and Savings’ On 21st August 2015
- On 4th September 2016 a session of BSE-IPF for BMS students on Basics of Stock Markets
- On 20th October 2015 One day conference on Development of Life Skills was held
- On 20th February 2016 Environment day was celebrated. FYBMS students presented models on various environmental issues made by them. The program was initiated and managed by Ms. Shivani Mayekar
- On 30th March 2016 a Lecture on TCS Orientation for SYBMS students was held
- On 31st March 2016 a Lecture was delivered by Ms. Shweta Apte on Research Methods with special focus on Primary data collection
- From 14th April to 30th April 2016 Lecture Series was organized on Industrial Development and Trends covering 15 industries by Mr. Rajesh Tambe

Industrial Visits:

On 27th January 2016 students of BMS visited Saguna Baug, a 55-acre farm with various agricultural activities such as agro forestry, dairy, fishing and aquaculture, agro tourism, horticulture, traditional and non-traditional farming.

33 *Teaching methods adopted to improve student learning*

- Mentoring sessions to understand students’ needs better
- Newspapers article reading in class
- Combination of chalk and board and ICT in class

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities:* Nil

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- Mentor-Mentee Relationship:
- Use of ICT
- Interface with Industry

WEAKNESS:

- Placement
- Poor response from students in learning of soft skills.

OPPORTUNITIES:

- Aggressive Brand Building:
- Enhancing Campus Recruitment
- Collaboration with Industries and Management Institutes
- Creating an alumni association:
- Inculcate professionalism among students:
- Research Activities:

CHALLENGES:

- Raising the Cut-off Percentage at FYBMS Admission
- To Achieve 100% Results at University Examination
- Soft skills training

EVALUATIVE REPORT OF THE DEPARTMENT OF MARATHI

- 1 *Name of the department* Marathi
- 2 *Year of establishment* 1953
- 3 *Names of programmes* Bachelor of Arts (Marathi)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts* 02

	Sanctioned	Filled
Professors	-	-
Associate Professors	01	01
Asst. Professors	01	01

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Ms. Vaishali Jawlekar	MA, MPhil , BEd	Associate Professor	Poetry Criticism	18	NA
Ms. Anagha Mandavkar	MA PhD	Assistant Professor	Language Grammar	08	NA

11 *List of visiting faculty* Nil

- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher* Nil
- 13 *Student – teacher ratio (program wise)* FYBA Compulsory - 116:1
SYBA and TYBA - 10:1
- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* Nil
- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG:* 01 MA, MPhil , BEd; 01 MA PhD
- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :* Nil
- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.*

Ms. Vaishali Jawlekar completed a UGC-sponsored minor research project on “Review of syllabus and its effectiveness in terms of job opportunity”. Date of Grant - 6th October 2010. Sanctioned amount: Rs.50 ,000/-, submitted in 2012-2013.
- 18 *Research Centre / facility recognized by the University* Nil
- 19 *Publications*
 - *Publication per faculty* Nil
 - *Number of papers published in peer reviewed journals (national / international) by faculty and students, Number of publications in International Database, Monographs, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index*
 - *Chapter in Books* 01 Study material for MA (I)
- 20 *Area of consultancy and income generated:* Nil
- 21 *Faculty as members in a) National committee b) International committee c) Editorial boards:* Nil
- 22 *Student projects:* 01 (Avishkar) Ms. Priya Joil TYBA Marathi made a presentation on Aadhyaatmik Moolyaadhishtit Shikshan : Kaalaachee Garaj’.
- 23 *Awards / Recognitions received by faculty and students* Nil

24 *List of eminent academicians and scientists / visitors to the department:*

- Mr. Anand Karandikar
- Ms. Sarita Avaad
- Mr. Shafaat Khan (Writer)
- Dr. Vidyut Bhagvat (Feminist critic)
- Neeraja (Poet and Critic)
- Com. Govind Pansare (Social Thinker)
- Mr. Vasant Abaji Dahake
- Mr Uttam Kambale
- Mr Sadanand More

25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise:*

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			M	F	
2010-11	10	10	2	8	98%
2011-12	13	13	-	13	99%
2012-13	4	4	1	3	100%
2013-14	15	15	3	12	99%
2014-15	11	11	2	9	99%
2015-16	22	22	02	19	100%

27 *Diversity of students:* All students from the same state.

28 *How many students have cleared national and state competitive examination?*

Ms. Tanvi Paradkar has cleared UGC-NET examination for the subject *Library and Information Science* in 2012-2013.

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	Against % enrolled
<i>PG to MPhil</i>	25%
<i>PG to PhD</i>	-

<i>PhD to Post-Doctoral</i>	-
<i>Employed</i>	-
<ul style="list-style-type: none"> • <i>Campus selection</i> • <i>Other than campus recruitment</i> 	
<i>Entrepreneurship / Self - employment</i>	50%

30 *Details of infrastructural facilities*

<i>a) Library</i>	Nil
<i>b) Internet facility</i>	One computer with internet connectivity
<i>c) Classroom with ICT</i>	Common facility is used
<i>d) Laboratories</i>	NA

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

- Soft Skills Development Workshop organized for students by Radio-Jockey Rashmi Warang
- Two workshops were organized for skill-enhancement: Ms. Rashmi Warang, Mr. Ganesh Achawal and Mr. Mayuresh Shirke (Radio-jockeys, media-persons) 'Samvaadkaushalya' (six-session workshop - 01.12.2015 to 10.12.2015).
- Mr. Manish Bavkar (Expert in the field of Modi script and History) - a 12-session inter-disciplinary workshop on 'Modi script' (15.01.2016 to 23.02.2016; Certificate-distribution - 22.03.2016).
- A seminar on Self-Employment and Essay-Debate Competitions were organized (7th Feb2015) under the scheme of People Education Programme by Khadi and Village Industry, Mumbai.

2010-2011

- On 7th August 2010, Mr. Dasu Vaidya, a renowned poet was invited by Marathi Vaangmay Mandal. Students of SYBA Mr. Anish Bendre and Ms Malvika Pandit interviewed the guest author.
- Dr. Vidyut Bhagvat was invited as a Guest Lecturer for L. G. Jog memorial lecture series on January 11th 2011. She spoke about "Feminism and Feminist literature in Marathi".

- Lecture by Ms. Surekha. Dalvi was organized by Dept. to get information about SEZ of Raigad Pen-Panvel (10th January). Students of TYBA were sensitized about the implementation of SEZ and condition of Farmers.
- A one-day workshop on “Unicode and Marathi” was held in January 2011. It was conducted by our former student Mr. Sushant Deolekar.
- Marathi Vaangmay Mandal and Women Development Cell organized a Story-reading session on 5th January, 2011. A Marathi story related to exploring the relationship with the opposite gender was read.
- Poetry-competition.
- On 14 February, 2011, ‘Marathi Bhasha Din’ and Memorial Day of Poet V. V. Shirwadkar was celebrated with students. On 28th February ‘Bhasha Din-celebration’ was organized for Teaching and Non-teaching Staff.
- Participation in other programmes -
 - Students of Marathi Department participated in a Radio-Programme ‘College-Meet’ (YUVA–VANI), broadcasted through Akaashvaanee, Mumbai. (November 2010.)
 - Students also participated actively in Vidhayartha Melaavaa organized by Marathi Aabyas Mandal at Somaiya college, Vidyavihar 14th and 15th January, 2011.)

2011-2012

- Educational Visits: to NCPA on 5/8/11; to National Book Trust and Lokvaangmay Gruh on 25/08/11.
- Poetry-competition.
- Inter-disciplinary programmes:
 - Dr. Rekha Gore gave a talk on ‘Sant Dnyeshwar and Yadav era’. (11th July 2011).
 - Prof. Avinash Kolhe delivered a lecture on ‘My Fair Lady and Tee Phulraani’(August, 2011).
- Lectures of eminent scholars & literary persons were organised in Marathi Vaangmay Mandal:
 - 19/9/11: Mr. Sanjay Pawar (Author, script-writer).
 - 29/11/11: Dr. Vasant Patankar (Poet, senior critic) was invited in L. G. Jog lecture-series.
 - 6/1/12: Prof. Vasant Dahake (Poet, senior critic; President of Marathi Saahitya Sammelan).
 - 7/2/12: Marathi Bhasha Din was organized.

2012-2013

- Prof. Anagha Mandavkar and some students from the department attended a literary programme ‘Shubhra aani Lakkha’ (literary enactment of Marathi poetry), organized by Jayadev-Rangsamvaad-Manch, on 17th June, 2013 in Bhupesh Gupta Bhavan, Prabhadevi.

- Mr. Pramod Pawar, a noted personality from Marathi Theatre and Cinema, was invited in Marathi Vaangmay Mandal, on 27th July, 2012. He guided students about 'Samvaad-Kaushalya', i.e. Communication Skills. Students who secured First Class in TYBA Marathi Examination were felicitated in this programme. (2-Science, 11:30 a.m. to 2:00 p.m.).
- A workshop on Theatre was conducted on 14th August, 2012. It was guided by Ms. Vandana Khare, a prominent social activist. (New Building, Room No. 202, 10:00 a.m. to 5:00 p.m.).
- Neerajaa, a senior poet and critic in Marathi, was invited in Late L.G. Jog Memorial Lecture-series on 10th January, 2013. She delivered a talk on 'Women's Poetry in Marathi during post-1990 era: Changing Perspectives'. (2-Science, 10:30 a.m. to 12:30 p.m.).
- A poetry- competition was organized for students. Selected participants were given an opportunity to recite their poetry before audience in Marathi Bhasha-Din function. Winners were felicitated in the same function.
- Prof. Anagha Mandavkar and 20 students visited an exhibition of Japanese Art-forms, organized by Indo-Japanese Association, on 9th February, 2013, in Kama Auditorium, Churchgate. Students from SYBA study 'Tokonoma', a travelogue on Japan, written by Mr. Prabhakar Padhye, as a part of their syllabus (Marathi Literature, P.-II). This visit was organized to enable these students to understand the essence of Japanese culture. After visiting this exhibition, the group also enjoyed a visit to Kala Ghoda Festival.
- Marathi Bhasha-Din Function: On 13th February, 2013, a special function was organised to celebrate Marathi Bhasha-Din in 2 (Science). Students participated in various forms including literary enactment, poetry-recitation, book-reviews, documentary, dance and music, and so on and so forth. This was followed by a talk on 'Challenges before Marathi Language', by Mr. Uttam Kamble, former president of Marathi Saahitya-Sammelan.

2013-2014

- Mr. Visubhau Bapat, was invited in Marathi Vangmay Mandal, on 18th July, 2013. He presented his famous literary programme 'Kutumb Rangalay Kaavyaat'. This programme inculcated a taste for various forms of poetry among students. Students who secured First Class in TYBA Marathi Examination were felicitated in this programme. (2-Science, 10:30 a.m. to 12:30 p.m.)
- A special literary tribute was paid to Lokshaaheer Annaabhaau Saathe on 25th July, 2013. Shaaheer Sambhaij Bhagat and his troupe conveyed Annabhaau's ideology through mesmerising performances. (7-Arts, 10:30 a.m. to 12:30 p.m.)
- Prof. Anagha Mandavkar and students from FYBA watched a play 'Premaa, Tujhaa Rang Kasaa?' (included in Syllabus of Marathi Literature, FYBA) at Shivaji Mandir, on 15th August, 2013. (3:30 p.m. to 6:30 p.m.)
- A talk on 'Ideology of Mahatma Phule' by Dr. Krishna Kiravale was organised on 28th November, 2013. (34-Science, 9:30 a.m. to 10:30 a.m.)

- ‘Smaran Indireche’, a special programme was organised on 4th January, 2014, to celebrate the birth-centenary of Indira Sant, a great poetess in Marathi. Students and teachers presented some portions from literature written by Indira Sant, through reading, literary enactment and singing. (7-Arts, 8:30 a.m.-10 a.m.)
- Mr. Satish Tambe, a senior copy-writer and story-writer, was invited in Late L.G. Jog Memorial Lecture-series on 28th January, 2014. He delivered a talk on ‘Advertising : Required Skills and Available Opportunities’. (2-Science, 10:30 a.m. to 12:30 p.m.).
- A special tribute was paid to late poet Namdeo Dhasal on 5th February, 2014. Prof. Pratibha Tembe, a noted researcher, guided the students about his literary contribution in Marathi poetry. Students presented some poems by Namdeo Dhasal in this programme. (7-Arts, 10 a.m. to 12 noon.)
- A grand literary programme to mark the publication of ‘Rasagandha: Aaswaadak Sameekshaa’, a new book by Mr. Ratnakar Matkari, was organised by Marathi Vaangmay Mandal, D. G. Ruparel College and Navachaitanya Publication, Mumbai, on 22nd February, 2014. Dr. Sudha Joshi, a senior Marathi critic presided over the function that included speeches throwing light on the process of editing, in fact the whole process of book-publishing; a talk on appreciation and criticism by noted theatre-critic Mr. Kamalakar Nadkarni; literary enactment of one article from the book; and a small interview of the author by students. (2-Science, 11:30 a.m. to 2:30 p.m.)
- Marathi Bhasha-Din Function: On 28th February, 2014 a special function was organized to celebrate Marathi Bhasha-Din in 7 (Arts). Students presented poems written by Kusumaagraj. TYBA students presented a report about the Marathi-Bhasha-Din Function, experienced by them at University of Mumbai on 27th February, 2014.
- A poetry- competition was organized for students. Selected participants will be given an opportunity to recite their poetry before audience in Marathi Vaangmay Mandal’s programme in the next academic year. Winners will be felicitated in the same function.

2014-15

- Actor VEENA JAMKAR was invited as a guest for inauguration of Marathi Vangmay Mandal on 14 JULY,
- Organized a workshop on soft skill development – Samwaad Kaushalya (26th Nov to 24th Dec 2014)
- An Alumni meet was organized on 11 th Apr.2015. Former faculty members were also present in this programme.
- Com. Govind Pansare was invited as a Guest Lecturer for L. G. Jog memorial lecture series on 17 Dec. 2014. He spoke about the personality of Rajashri Shahu Maharaj as a social reformer.
- A seminar on Self-Employment and Essay-Debate Competitions were organized for students of Ruparel College, under the scheme of People Education Programme by Khadi and Village Industry, Mumbai. Seminar on Self-Employment was organized On 07 Feb. 2015.

- Students were encouraged to participate in activities of Rajya Marathi Vikas Sansthaa and Dept. Of Marathi, University of Mumbai(Marathi Bhasha Din).

33 *Teaching methods adopted to improve student learning*

- Group study, Assignments
- Classroom competition of students' presentations.
- Interdisciplinary lecture.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil*

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- Inclination towards research
- A lot of Co-curricular and literary activities arranged through Marathi Vaangmay Mandal
- Achievements of students who are successful in various fields
- Department's contribution to cultural activities of college and 'Imprints'

WEAKNESSES:

- Needs to improve regarding use of modern technology in teaching-learning process
- Gap between market-demands and the current syllabus

OPPORTUNITIES:

- An add-on course to impart functional skills of Marathi
- Inter-disciplinary co-curricular activities
- Research-oriented activities

CHALLENGES:

- Students who opt for Marathi undergo lot of socio-psychological pressure
- Students who opt for Marathi are lacking primary lingual and literary skills, need a lot of grooming.

FUTURE PLANS:

- An add-on course to impart functional skills of Marathi

EVALUATIVE REPORT OF THE DEPARTMENT OF MATHEMATICS

- 1 *Name of the department* Mathematics
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Bachelor of Science (Mathematics)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	01	01
Asst. Professors	04	02

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Jayshree Mehta	M.Sc. , M.Phil	Associate Professor and Head	Applied Mathematics	26	Nil
Dr. Abhaya Chitre	M.Sc. , M.Phil.,PhD	Assistant Professor	Graph Theory	17	Nil
Mr. Vithal Shinde	M.Sc.	Assistant Professor	Number Theory	11	Nil

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher* 20%
- 13 *Student – teacher ratio (program wise)*

2010 -11	700 :4
2011 -12	700 :4
2012 – 13	700 :4
2013 – 14	800 :4

2014 – 15	800 :4
2015 - 16	370 :4

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* Nil

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Ms. Jayshree Mehta	M.Sc. , M.Phil
Dr. Abhaya Chitre	M.Sc. , M.Phil., PhD
Mr. Vithal Shinde	M.Sc.

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received. :* Nil

18 *Research Centre / facility recognized by the University*

19 *Publications*

- *Publication per faculty* Dr. Abhaya Chitre- 03
 - *Number of papers published in peer reviewed journals (national / international) by faculty and students:* 03
 - *Number of publications in International Database:* 03
- Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index:* Nil

20 *Area of consultancy and income generated :* Nil

21 *Faculty as members in a)National committee b) International committee c) Editorial boards:* Nil

22 *Student projects* Nil

23 *Awards / Recognitions received by faculty and students*

Ms. Jayshree Mehta was Subject Expert (Mathematics) Board of Studies of St. Xavier's College (an Autonomous Institute) for period 2010-2013.

24 *List of eminent academicians and scientists / visitors to the department:* Nil

25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise:*

Name of the Course/programme (refer question No.4)	Year	Selected	Enrolled		Pass percentage
			M	F	
T.Y.BSc	2010-11	100%	02	05	57.1 %
T.Y.BSc	2011-12	100%	02	02	50%
T.Y.BSc	2012-13	100%	08	12	45%
T.Y.BSc	2013-14	100%	08	15	47.8 %
T.Y.BSc	2014-15	100%	08	08	62.5 %
T.Y.BSc	2015-16	100%	07	14	85.7 %

27 *Diversity of students* Students enrolled are from same state

28 *How many students have cleared national and state competitive examination?* Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	40-50%
<i>PG to MPhil</i>	---
<i>PG to PhD</i>	---
<i>PhD to Post-Doctoral</i>	---
<i>Employed</i>	---
<ul style="list-style-type: none"> <i>Campus selection</i> <i>Other than campus recruitment</i> 	
<i>Entrepreneurship / Self - employment</i>	---

30 *Details of infrastructural facilities*

- a) *Library* Nil
- b) *Internet facility* 1 Computer in department with internet facility
- c) *Classroom with ICT* ---
- d) *Laboratories* NA

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:* Nil

33 *Teaching methods adopted to improve student learning*

Question bank, Charts for formulae

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Nil

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- Good Co-ordination, understanding and unity amongst the three confirmed department staff.
- 3 confirmed department staff members capable to handle the workload of 5.
- Questions bank is prepared for students.
- Data of failures is collected and individually every student is guided to overcome their weaknesses and to help them clear at the next attempt.
- Encourage and help students to go for inter-collegiate competitions

WEAKNESS:

- Unable to organize seminar/workshop/conference.
- Unable to attend seminar/workshop/conference.
- Since 2011 we are unable to take remedial coaching because of shortage of time due to introduction of credit based semester system.

OPPORTUNITIES:

- Trained students to answer how knowledge of Mathematics and its applications is a must in financial institutions and to appear for aptitude test of J.P Morgan. One of our department student was selected by J.P. Morgan through college Placement Cell.
- Encourage and train students to go for Mathematical Competition conducted by Homi Bhabha Centre for Science Education, T.I.F.R funded by NBHM to help nurture and create interest in Mathematics and also to promote interest for research in Mathematics. One student cleared the written entrance exam of T.I.F.R. for Ph. D. program.

CONSTRAINTS / CHALLENGES:

- Due to deficit of staff, three confirmed staff have to manage the department's teaching, assessment.
- Majority of students at F.Y.BSc are with low Mathematical caliber.

EVALUATIVE REPORT OF THE DEPARTMENT OF PHILOSOPHY

- 1 *Name of the department* Philosophy
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Bachelors in Arts in Subject of Philosophy
- 4 *Name of interdisciplinary courses and the departments/units involved* Nil
- 5 *Annual/Semester/Choice based credit system* Choice Based Credit System
- 6 *Participation of the department in the courses offered by other departments* Nil
- 7 *Courses in collaboration with other universities etc.* Nil
- 8 *Details of courses/programs discontinued* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors		
Associate Professors		
Asst. Professors	03	02

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Dr. Anupama Mujumdar	MA, SET, PhD	Assistant Professor	Philosophy	12	---
Mr. Sandip Kadam	MA, NET, SET	Assistant Professor	Philosophy	08	----

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher :* Nil
- 13 *Student – teacher ratio (program wise)* FYBA- 66:01, SYBA- 57:02, TYBA- 10:02

14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled* Nil

15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Dr. Anupama D. Mujumdar	MA, PhD
Mr. Sandip Kadam	MA

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received* Nil

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.* Nil

18 *Research Centre / facility recognized by the University:* Nil

19 *Publications*

- *Publication per faculty* Anupama D. Mujumdar - 01
Sandip S. Kadam – 02
- *Number of papers published in peer reviewed journals (national / international) by faculty and students , Number of publications in International Database, Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index* Nil

20 *Area of consultancy and income generated* Nil

21 *Faculty as members in*

a) National committee Nil

b) International committee Nil

c) Editorial boards Nil

22 *Student projects* Nil

a) Percentage of students who have done in-house projects Nil

b) Percentage of students placed for projects in organizations outside the institutions
Nil

23 *Awards / Recognitions received by faculty and students*

Nil

24 *List of eminent academicians and scientists / visitors to the department*

Nil

25 *Seminars / Conference / Workshops organized the source of funding*

a) National Nil

b) *International* Nil

26 *Student profile programme / course wise :*

Name of the Course/programme	Applications received	Selected	Enrolled		Pass Percentage
			M	F	
TYBA Philosophy (2010-11)	15	15	01	14	100%
TYBA Philosophy (2011-12)	13	13	02	11	100%
TYBA Philosophy (2012-13)	16	16	01	15	100%
TYBA Philosophy (2013-14)	16	16	01	15	75%
TYBA Philosophy (2014-15)	18	18	03	15	75%
TYBA Philosophy (2015-16)	10	10	01	09	Result awaited

27 *Diversity of students*

Course	% from same State	% other State	% from abroad
TYBA(Philosophy)	100%	0%	0%

28 How many students have cleared national and state competitive examination?

1. Tejashree Trimbke: NET (2014-15)
2. Moonam Kharat (faculty): NET (2013-14)

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	10%
<i>PG to MPhil</i>	2%
<i>PG to PhD</i>	Nil
<i>PhD to Post-Doctoral</i>	Nil
<i>Employed</i> <ul style="list-style-type: none"> • <i>Campus selection</i> • <i>Other than campus recruitment</i> 	Nil
<i>Entrepreneurship / Self - employment</i>	Nil

30 Details of infrastructural facilities

- a) Library Nil
- b) Internet facility Nil
- c) Classroom with ICT Common facility used.
- d) Laboratories Nil

31 Number of students receiving financial assistance from college, university, government or other agencies

Nil

32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sr.No.	Activity details	Year
1	Guest Lecture on 'Moral injunctions as a way of Life' by Prof. Shobha H. Doshi	4 th February, 2011
2	Screening of the movie "Rashoman"	6 th August, 2011
3	Screening of the movie "Downfall"	10 th September, 2011
4	Guest lecture on 'Relevance of Philosophy in Modern Times' by Prof. Suchitra Naik	18 th January, 2012
5	Debate on 'Theism and Atheism'	19 th December, 2012
6	Documentary 'The God Debate'	16 th September, 2013
7	Talk on 'Big Bang, Stephen Hawking and God' by Henry Shafer	6 th February, 2014
8	Guest lecture on "Euthenasia: An Indian Perspective" by Dr. Namita Nimbalkar	30 th July, 2014
9	Talk on "Positive Thinking" by Dr. Shubha Thatte	11 th February, 2015
10	A talk on 'Relevance of Swami Vivekanandas thoughts' by Dr. Priya Vaidya	12 th January 2016
11	talk on 'Now or Never' by Mr. Sandip Solanki	13 th January 2016

33 Teaching methods adopted to improve student learning

- Individual presentations by students
- Encouraging students to use more reference books
- Group Discussions
- Case study

34 Participation in Institutional Social Responsibility (ISR) and Extension activities:

Nil

STRENGTHS

- Students admitted to Philosophy Department irrespective of percentage
- Every year almost 75% of students got First Class at TYBA
- Two Consecutive years (2011-12) Kasturi Deshpande and (2012-13) Tejashree Trimbake bagged 1st rank in Philosophy merit list securing 80%
- In (2014-15) Tejkiran Palaya bagged 3rd rank in Philosophy merit list.

CONSTRAINTS/CHALLENGES

- Convincing students for opting for Philosophy

FUTURE PLANS

- Taking up a Research projects.
- Publishing research papers and articles

EVALUATIVE REPORT OF THE DEPARTMENT OF PHYSICS

- 1 *Name of the department* Physics
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Bachelor of Science(Physics)
Master of Science (Physics) with specialisation in Electronics
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-	-
Associate Professors	6	6
Asst. Professors	6	3

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Dr. Tushar Desai	MSc, PhD	Principal	MSc Electronics Ph.D. Vacuum Science	32	--
Ms. Vidya Patil	MSc	Associate Professor	Electronics	29	--
Dr. Mugdha Patki	MSc, PhD	Associate Professor	MSc Electronics PhD Solid State Physics	28	--
Dr. Dilip Maske	MSc, PhD	Associate Professor	MSc Applied Electronics PhD Material Science – Crystal Growth	26	--
Mr Ganesh Madkaikar	MSc	Assistant Professor	Nuclear Physics	11	--
Ms. Jayashree Chitalay	MSc	Associate Professor	Electronics	26	--

Mr. Sumedh Sawant	MSc	Assistant Professor	Quantum Field Theory	7	--
Mr. Giraj Sharma	MSc	Assistant Professor	Solid State Physics	6	--

11 *List of visiting faculty*

Sr. No.	Name	College	Course
1.	Dr. Veena Joshi	Somani College	MSc I: PSPH104,204
2.	Dr. V. Balasubramanian	Siddharth College	MSc I: PSPH103,202
3.	Dr. Poonam Agarwal	G.N.Khalsa College	MSc I: PSPH103,203
4.	Dr. Richa Agarwal	G.N.Khalsa College	MSc I: PSPH103,203
5.	Dr. Jyoti Rao	R.N. Ruia College	MSc I: PSPH101,202
6.	Prof. Shekhar Deodhar	Wilson College	MSc II: PSPH301,402
7.	Prof. Michael D'Souza	Wilson College	MSc II: PSPH301,402
8.	Dr. H.S. Kalsi	G. N. Khalsa College	MSc II: PSPHET305,405
9.	Prof. Kiran Nabar	S.I.E.S. College	MSc II: PSPHET306,406
10.	Prof. Vinod Menon	S.I.E.S. College	MSc II: PSPHET306,406
11.	Prof. Dinesh Himmatsinghani	R.D. National College	MSc II: PSPHET306,406
12.	Prof. Namrata Ajwani	R.D. National College	MSc II: PSPH 302
13.	Prof. Mahesh Shetti	Wilson College	MSc II: PSPH 401

- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*

Year	% Lectures delivered by temporary faculty				% Practical classes handled by temporary faculty			
	F.Y.	S.Y.	T.Y.	MSc	F.Y.	S.Y.	T.Y.	MSc
2011-2012	83	66	10	0	77	83	50	0
2012-2013	100	77	0	0	83	80	50	0
2013-2014	33	44	20	0	50	50	30	0
2014-2015	33	33	20	0	70	16	20	0
2015-2016	33	33	20	0	66	40	20	0

- 13 *Student – teacher ratio (program wise)*

	F.Y.	S.Y.	T.Y.
2010-2011	51.3: 1	37.5: 1	7.5: 1
2011-2012	51:1	39:1	12.33:1
2012-2013	46.25:1	38:1	14:1
2013-2014	57.5:1	43.3:1	12.3:1
2014-2015	53.6: 1	42.5:1	12.7:1
2015-2016	54: 1	42:1	10.3:1

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled*

Post	Sanctioned	Filled
Lab Assistant	03	03
Lab Attendant	10	10
Field Collector	-	-
Peon	03	02

- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Dr. Tushar Desai	MSc, PhD
Dr. Mugdha Patki	MSc., PhD
Dr Dilip Maske	MSc, PhD
Ms. Vidya Patil	MSc
Mr. Ganesh Madkaikar	MSc, MPhil
Ms. Jayashree Chitalay	MSc, M.Phil

Mr. Sumedh Sawant	MSc
Mr. Giraj Sharma	MSc

16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :- Nil*

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received :*

Year	Funding Agency	Amount
2013-14	University of Mumbai	Rs. 35,000/-
2014-15	University of Mumbai	Rs. 30,000/-

18 *Research Centre / facility recognized by the University –*

Lab Recognition Applied for at Mumbai University

19 *Publications*

- *Publication per faculty*

Ms. Vidya Patil	03
Dr. Mugdha Patki	05
Dr. Dilip Maske	21
- *Number of papers published in peer reviewed journals (national / international) by faculty and students*

International: 10
National: 03
Conference Proceedings:
International: 10
National : 04
- *Impact factor*
 - *Bionano Frontier - 0.233*
 - *International Journal of Scientific and Research Publications 2.07*

20 *Area of consultancy and income generated:* Rs. 2000/- against consultancy for M.Sc. Part I and II Physics Experiments

21 *Faculty as members in*

- | | |
|-----------------------------------|-----|
| <i>a) National committee</i> | Nil |
| <i>b) International committee</i> | 02 |
| <i>c) Editorial boards</i> | Nil |

22 *Student projects*

a) *Percentage of students who have done in-house projects*

In-house projects including inter departmental /program: Years 2010-2014: 100%

2014-2016: 92%

b) *Percentage of students placed for projects in organizations outside the institutions*

In Research laboratories/Industry/other agencies: Years 2014-2016: 8 %

23 *Awards / Recognitions received by faculty and students:*

Year	Student / Teacher	Award
2010-11	Dr. Tushar Desai	Best Teacher Award by Govt. Of Maharashtra , Sept. 2010
2011-12	Ajay Lotekar	First Rank , T.Y.BSc Physics, University of Mumbai
2013-14	Sangeeta Dhuri	Third Rank , T.Y.BSc Physics, University of Mumbai
2014-15	Vidula Angane	First Rank, M.Sc. All Subjects, University of Mumbai
2014-15	Dr. D.S. Maske	Ph. D. In Physics, Feb. 2015
2015-16	Dr. D.S. Maske	Best Poster Presentation at 20 th National Conference organized by BARC & MRSI, Jan 2016

24 *List of eminent academicians and scientists / visitors to the department*

No.	Name of eminent academicians and scientists / visitors	Date	Affiliation
1	Dr.Sanved Kolekar	28/06/11	IUCAA
2	Dr.Amol Dighe	14/07/12	TIFR
3	Dr. Sanjay Wagh	22/06/13	Central India Research Institute
4	Dr.Amol Dighe	18/01/14	TIFR
5	Dr.Vandana Nanal	01/02/14	TIFR
6	Dr.Arnab Bhattacharya	15/02/14	TIFR
7	Dr.Shashikant Dugad	01/03/14	TIFR
8	Dr.Unnikrishnanan	14/02/15	TIFR
9	Dr.Tamizvel	28/02/15	TIFR

25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise:*

Name of the Course/program (refer question No.4)	Applications received	Selected	Enrolled		Pass percentage
			M	F	
TYBSc (2015 – 16)	NA	31	23	8	Result Awaited
TYBSc (2014 – 15)	NA	39	22	17	40.5
TYBSc (2013 – 14)	NA	26	14	12	89.74
TYBSc (2012 – 13)	NA	28	16	12	60.71
TYBSc (2011 – 12)	NA	37	23	14	62.62
TYBSc (2010 – 11)	NA	15	10	05	80

27 *Diversity of students*

Student enrolled are from same state

28 *How many students have cleared national and state competitive examination?*

National Graduate Physics examination (NGPE) : 15 students

IIT (JAM) : 04

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	2014 – 15 : 34.2% 2013 – 14 : 53.33% 2012 – 13 : 40% 2011 – 12 : 50% 2010 – 11 : 35.14%
<i>PG to MPhil</i>	--
<i>PG to PhD</i>	2014 – 15 : 0% 2013 – 14 : 0% 2012 – 13 : 0% 2011 – 12 : 0% 2010 – 11 : 9.1%
<i>PhD to Post-Doctoral</i>	--
<i>Employed</i>	
<ul style="list-style-type: none"> <i>Campus selection</i> <i>Other than campus recruitment</i> 	2010 – 11 : 04 2011 – 12 : 22 2012 – 13 : 05 2013 – 14 : 17 2014 – 15 : 05
<i>Entrepreneurship / Self - employment</i>	--

30 *Details of infrastructural facilities*

- a) *Library* 1220 Books in the departmental library
- b) *Internet facility* Available in HOD cabin and in Laboratory
- c) *Classroom with ICT* Two classrooms with LCD Projectors
- d) *Laboratories* 4 Laboratories for UG and PG

31 *Number of students receiving financial assistance from college, university, government or other agencies*

Funding Agency	Course	No. Of Students
D.G. Ruparel College	U.G.	04
D.G. Ruparel College	P.G.	04

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

No	Program	Resource Person	Date
1	Talk on 'Advance Research Methods in Science and Technology'	Ajinkya Kamat (University of Virginia)	22/10/2011
2	Workshop on 'Doing Experiments in Physics'	Shirish Pathare (Homi Bhabha Centre for Science Education HBCSE)	03/01/2012
3	Open Lecture on 'God Particle - Higg's Boson'	Dr.Amol Dighe (TIFR)	14/07/2012
4	Open Lecture on World of Microscopy	Avadhesh Yadav (ICON)	21/08/2012
5	Talk on 'A Broad Perspective in the Small World'	Ms. Shalini M.	09/01/2013
6	Seminar on 'Golden Age of Astronomy'	Prof. Mohan Apte	01/02/2013
7	Talk on 'Canvaas Of Astronomy'	Dr. Sanjay Wagh (CIRI)	22/06/2013
8	Talk on 'Adventures in Quantum Mechanics'	Chetan waghela (IISER, Kolkata)	15/07/2013
9	Seminar on 'Neutrinos'	Dr. Amol Dighe (TIFR)	18/01/2014
10	Seminar on "Career options after Graduation"	Narendra Nadkarni (CAP GEMINI)	29/1/2014
11	Seminar on "Career options after Post Graduation"	Laxmikant Dongre (US based Entrepreneur)	29/1/2014
12	Seminar on 'Exploring Nuclei'	Dr. Vandana Nanal(TIFR)	01/02/2014
13	Seminar on 'Band gap Engineering'	Dr. Arnab Bhattacharya (TIFR)	15/02/2014
14	Seminar on' Search for Fundamental Particles : An Experimental Overview'	Dr, Shashikant Dugad (TIFR)	01/03/2014
15	Seminar on 'Optical & Structural prop of rutile TiO2 synthesized at RT by CBD method'	Vikrant Kurmude (HBCSE)	25/7/2014

16	Talk on 'Physics and Music'	Prof. Ramdas Kamath (Somaia College)	06/02/2015
17	Talk on 'Ancient Indian Astronomy'	Prof. Mahesh Shetti (Wilson College)	06/02/2015
18	Seminar on 'GRAVITY: From the Universe to the Atoms'	Dr. C. S. Unnikrishnan (TIFR)	14/02/2015
19	Seminar on 'Crystal Growth and X-ray Diffraction'	A. Thamizhvel, (TIFR)	28/02/2015
20	Interactive session on 'Careers in Research'	Dr. Vinayak Kamble (IISER, Thiruvananthapuram)	22/09/2015
21	Interactive session on 'Research Opportunities in Physics at abroad Universities'	Dr. Alok Chhabal (Eindhoven, Netherlands)	06/01/2016
22	Seminar on 'Scanning Electron Microscopy – Developments and Applications'	Avadhesh Yadav (ICON)	11/01/2016
23	Talk on "Special and General Theory of Relativity"	Rajeev Chitnis (Marathi Vidyan Parishad)	03/02/2016
24	Talk on 'Puzzles in Ancient Indian Astronomy.'	Prof. Mahesh Shetti (Wilson College)	03/02/2016
25	Interactive Session for UG	Abhijeet Korde (Project Manager, Accenture, Mumbai)	13/02/2016

33 *Teaching methods adopted to improve student learning :*

Use ICT and use simulations such as PhET, Wolfram

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Science Outreach Programme:

VIBGYOR 2013 : visits of School students	1 st , 2 nd Feb. 2013
VIBGYOR 2014: visits of School students	7 th , 8 th Feb. 2014
VIBGYOR 2015: visits of School students	6 th , 7 th Feb. 2015
VIBGYOR 2016 : visits of School students	2 nd , 3 rd Feb. 2016
Visit to Rural Area School	18 th , 19 th Oct. 2014
Visit to deprived class school	27 th Feb. 2016

Dr. Mugdha Patki is the extension teacher at Ruparel College, which is affiliated to the Department of Life Long Learning and Extension (DLLE), University of Mumbai.

STRENGTHS:

- Well established PG Theory teaching center with 6 PG recognized teachers.
- Mentoring, Personal attention and Counseling for UG students.
- Well maintained departmental library with 1200+ books

WEAKNESS:

- Minimum Campus placement opportunities.

OPPORTUNITIES

- Faculty undertaking Minor research projects.
- Popularization of Physics at school level.
- Guidance to students for national level entrance examinations.

CONSTRAINTS / CHALLENGES

- Need to bridge the gap between academics and industry.
- Participation of students in different research institutes for short/ long term research projects.
- Physics being a conceptually difficult subject, need to improve the result at UG and PG level.

FUTURE PLANS:

- Under the activity of E2P department is planning to train students for Joint Entrance Examinations after the graduation.
- Department is organizing a 'Fun & Learn Physics- A Science exhibition' for the students.
- Popular lectures in Physics will be arranged for the students.
- Purchase of new books in advance subjects in tune with newly introduced courses
- Proposed to carryout Deep Sky observation and to start a certificate course in Astronomy.
- Department will organize an educational visit.

EVALUATIVE REPORT OF THE DEPARTMENT OF POLITICAL SCIENCE

- 1 *Name of the department* Political Science
- 2 *Year of establishment* 1952
- 3 *Names of programmes* Bachelor of Arts (Political Science)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments* Nil
- 7 *Courses in collaboration with other universities etc.* Nil
- 8 *Details of courses/programs discontinued* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	Nil	Nil
Asst. Professors	01	01

- 10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Mr. Avinash R. Kolhe	M.A., SET,	Asst. Professor	Political Science	18	---

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*
Nil
- 13 *Student – teacher ratio (program wise)*

FYBA- 106:01
SYBA- 90:01
TYBA- 45:01

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* Nil
- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG :* 01 MA, SET
- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:* Nil
- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.* Nil
- 18 *Research Centre / facility recognized by the University:* Nil
- 19 *Publications*
 - *Publication per faculty* Avinash Kolhe: 07
 - *Number of papers published in peer reviewed journals (national / international) by faculty and students:* Avinash Kolhe: 07
 - *Number of publications in International Database, Monographs, Chapter in Books, Books edited, Citation Index, SNIP, SJR Impact factor, H-index?:* Nil
 - *Books with ISBN/ISSN numbers:* “Rangadevateche Aanglaroop”. ISBN No.: 978-93-82789-1 [Lokvangamaya Prakashan Gruha, Prabhadevi, Mumbai 400 025]
- 20 *Area of consultancy and income generated* Nil
- 21 *Faculty as members in a) National committee b) International committee c) Editorial boards:* Nil
- 22 *Student projects* Nil
- 23 *Awards / Recognitions received by faculty and students*
 - Visiting Associate Fellow by the Institute of Chinese Studies, Delhi.
 - Rambhau Mhalgi Prabodhini, Mumbai has invited to join as member of study team to analyse the socio-political scenario in Tripura.
 - Commissioned by the Sahitya Akademi, New Delhi to write a biography of famous social reformer R D Karve.
- 24 *List of eminent academicians and scientists / visitors to the department*
 - [1] Girish Kuber, editor-in-chief of ‘Loksatta’, a premier daily from Express group.
 - [2] Ms Neela Satyanarayan, IAS officer, Chief State Election Commissioner
- 25 *Seminars / Conference / Workshops organized the source of funding:* Nil

26 *Student profile programme / course wise :*

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			M	F	
TYBA [2010-11]	52	52	19	33	85%
TYBA [2011-12]	47	47	21	26	88%
TYBA [2012-13]	43	43	12	31	87%
TYBA [2013-14]	40	40	14	26	84%
TYBA [2014-15]	47	47	26	21	90%
TYBA [2015-16]	45	45	16	29	88%

27 *Diversity of students:* Students enrolled are from same state

28 *How many students have cleared national and state competitive examination?:* Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	--
<i>PG to MPhil</i>	--
<i>PG to PhD</i>	--
<i>PhD to Post-Doctoral</i>	---
<i>Employed</i>	—
<ul style="list-style-type: none"> <i>Campus selection</i> <i>Other than campus recruitment</i> 	
<i>Entrepreneurship / Self - employment</i>	--

30 *Details of infrastructural facilities*

a) *Library* Nil

b) *Internet facility* Nil

c) *Classroom with ICT* Common facility is used

d) *Laboratories* Nil

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

Sr.No.	Activity details	Year
1	Political Cartooning workshop by Prashant Kulkarni	10 th July 2010
2	Political Tour on Mumbai city covering historical places like Mani Bhavan, school where Congress was born in 1885, etc	4 th August, 2010
3	Half day workshop on still photography	26 th August. 2010
4	‘Street theatre and Politics’ by Sudhanva Deshpande	2 nd December 2010
5	‘150 Years of Income Tax in India’. Presentation by Bharat Tripathi, IRS, Joint Income Tax Commissioner	11 th December. 2010
6	Visit to college library as knowledge centre.	4 th February 2011
7	Library visits to [1] TISS [2] IIPS, Chembur	10 th February 2011
8	Visit to American Centre Library, Churchgate	21 st September 2011
9	Political Cartooning workshop by Prashant Kulkarni	21 st October 2011
10	Half day workshop on still photography in collaboration with the Photography Society of India, Fort Mumbai	22 nd October 2011
11	Book Review Club inauguration	8 th December 2011
12	Visit to Vidhan Sabha of Maharashtra	24 th July 2012
13	Visit to Mumbai High Court on completion of 150 years	1 st September 2012
14	Visit to American Centre Library	18 th September 2012
15	Visit to TISS and IIPS	11 th December 2012
16	Inauguration of Book Review Club	5 th December 2012
17	Political Cartooning workshop by Prashant Kulkarni	8 th August 2013
18	The careers in UPSC and how to prepare’	6 th September 2013
19	Visit to American Centre Library	26 th August 2013
20	Visit to TISS and IIPS	17 th February 2014
21	Book Review Club	18 th February 2014
22	Psephology: the art and science of Election Predictions’	6 th August 2014
23	International Human Rights’ Day	10 th December 2014
24	Book Review Club Inauguration	16 th January 2015
25	Maharashtra Vidhan Sabha and Vidhan Parishad.	30 th March 2015
26	Political Cartooning workshop by Prashant Kulkarni	15 th July 2015
27	Visit to American Centre Library, BKC Kurla	10 th December 2015
28	Constitution Day celebration	25 th November 2015
29	Inauguration of Book Review Club	27 th August 2015

33 *Teaching methods adopted to improve student learning*

- Regular presentations by students
- Encouraging students to use more reference books, latest periodicals and newspapers
- Group Discussions
- Case study

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil*

STRENGTHS:

- Excellent Library and latest journals
- Interactive teaching method
- Field visits [TISS, IIPS, RMP, etc]
- Guest lectures
- Co-curricular inputs

CONSTRAINTS:

- Migrating bright students to other colleges. as NO full course.
- ICT resources not adequately available.

OPPORTUNITIES:

- Growing interest in the subject as it is quite important for competitive examination like UPSC. MPSC, etc.
- If full course begins, it can lead to post-graduate program

CHALLENGES:

- How to start full course?

FUTURE PLANS:

- Taking up a Research projects.
- Publishing research papers and articles

EVALUATIVE REPORT OF THE DEPARTMENT OF PSYCHOLOGY

- 1 *Name of the department* Psychology
- 2 *Year of establishment* June 1958
- 3 *Names of programmes* Bachelor of Arts (Psychology)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	Nil	Nil
Associate Professors	02	02
Asst. Professors	01	01 (on temporary basis)

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Dr. Nandini Diwan	MA, M Phil, PhD	Associate Professor	Social Psychology; Psychology of Women	35 yrs	Nil
Dr. Neeta Tatke	MA, MPhil, PhD	Associate Professor	Clinical and Sports Psychology	29 yrs	Nil
Ms. Ruta Patwardhan	MA, NET	Assistant Professor	Counseling Psychology	3 yrs.	Nil

11 *List of visiting faculty*

Nil

12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*

Percentage of Lectures = 18.75% (6 out of 32);

Percentage of Practicals = 69.23% (18 out of 26

- 13 *Student – teacher ratio (program wise)*
 - FYBA – 100:01
 - SYBA – 90:3
 - TYBA – 32:3

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled*

Post	Sanctioned	Filled
Lab Attendant	01	01

- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Dr. Nandini Diwan	MA, MPhil, PhD
Dr. Neeta Tatke	MA, PhD

- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:* Nil

- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.*

Year	Funding Agency	Amount
2012-2013	University of Mumbai	`30,000

- 18 *Research Centre / facility recognized by the University:* Nil

- 19 *Publications*

- a) *Publication per faculty* Dr. Nandini Diwan 02
Dr. Neeta Tatke 06
- b) *Number of papers published in peer reviewed journals (national / international) by faculty and students:* 08
- c) *Number of publications in International Database:* 02
- d) *Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers:* Nil

Dr. Nandini Diwan

- 10th Reprint(April 2014) of 'Abhyas Kaushlya' ISBN-81-86184-78-8 by Rohan Publication
- Co-authored the Workbook for students and the Laboratory Manual for Practicals in Cognitive Processes and Psychological Testing for the revised TYBA syllabus in on behalf of the Board of Studies in Psychology (co-author Dr. Aninha Lobo)
- Co-authored the Workbook for TYBA students and the Laboratory Manual for Practicals in Cognitive Processes and Psychological Testing for the revised TYBA syllabus in Psychology; co-author Dr. Aninha Lobo
- Co-authored Laboratory Manual and Workbook for Practicals in Cognitive Processes and Psychological Testing for TYBA (co-author Dr. Aninha Lobo)
- Workbook for Practicals in Cognitive Processes and Psychological Testing for TYBA semesters 5 and 6 of the Credit-Based Grading System of University of

Mumbai; co-author Dr. Aninha Lobo, and foreword by Dr. Gautam Gawali (Professor and Head, Department of Applied Psychology; Chairperson, Board of Studies in Psychology)

- Workbook for Practicals in Cognitive Processes and Psychological Testing for TYBA semesters 5 and 6 of the Credit-Based Grading System of University of Mumbai; co-author Dr. Aninha Lobo, and foreword by Dr. Gautam Gawali (Professor and Head, Department of Applied Psychology; Chairperson, Board of Studies in Psychology)
- Dr. Diwan - 10th Reprint (April 2014) of Abhyas-Kaushalya' ISBN 81-86184-78-8 (Award-winning book in Marathi on Effective Study Habits) Rohan Prakashan, Pune
- Workbook for Practicals in Cognitive Processes and Psychological Testing for
- TYBA semesters 5 and 6 of the Credit-Based Grading System of University of Mumbai; co-author Dr. Aninha Lobo, and foreword by Dr. Gautam Gawali (Professor and Head, Department of Applied Psychology; Chairperson, Board of Studies in Psychology)
- Workbook for Practicals in Cognitive Processes and Psychological Testing for TYBA semesters 5 and 6 of the Credit-Based Grading System of University of Mumbai; co-author Dr. Aninha Lobo, and foreword by Dr. Gautam Gawali (Professor and Head, Department of Applied Psychology; Former Chairperson, Board of Studies in Psychology)

e) *Citation Index, SNIP, SJR, Impact factor, H-index*: Nil

20 *Area of consultancy and income generated:*

Dr. Neeta Tatke is the Group Head of Mallakhamb Unit and Secretary, Administration of Shree Samartha Vyayam Mandir, Dadar, a charitable sports organization. She is also involved in training the visually challenged students and foreign nationals in Mallakhamb. Income generated is nil because this work is done on honorary basis.

21 *Faculty as members in a) National committee b) International committee c) Editorial boards*: Nil

Dr. Nandini Diwan is on the editorial board of *Research Reach* the journal of College of Home Science, Nirmala Niketan, Mumbai.

22 *Student projects*

a) *Percentage of students who have done in-house projects*

- i. 18.75% of TYBA students (6 out of 32) presented 5 research projects in Avishkar Research Convention of University of Mumbai in November 2014
- ii. 6.25% of TYBA students (2 out of 32) presented 1 research project in Avishkar Research Convention of University of Mumbai in December 2015
- iii. 9.38% of TYBA students (3 out of 32) presented 1 research project in Trishool Competition of P. N. Doshi College, SNDT University in January 2016

b) Percentage of students placed for projects in organizations outside the institutions: Nil

23 *Awards / Recognitions received by faculty and students*

- Dr. Nandini Diwan - On 26th January, 2012 received the 'Smt. Savitribai Phule Adarsha Shikshika Puraskar' of the University of Mumbai for the year 2010-2011 from Dr. Rajan Welukar, the Vice-Chancellor of the University of Mumbai in recognition of her 'valuable contribution to teaching, research, and social work with sense of commitment, dedication and sincerity'.
- Dr. Neeta Tatke –
 1. Was given a trophy in recognition of her valuable contribution to promotion of traditional indian physical culture Mallakhamb for last 10 years in Munich, Germany September 2013
 2. Awarded 'Hirkani Puraskar' by Doordarshan's Sahyadri TV channel for the research and contribution in the field of Mallakhamb on 26th February 2015.

24 *List of eminent academicians and scientists / visitors to the department*

- Dr. Rucha Londhe (Research Associate, Goodman Research Group, Cambridge, USA)
- Ms. Mridgandha Solapurkar (Alumna, 1992 batch; Consulting Psychologist, Singapore)
- Dr. Rajiv Naidu, Hypnotherapy trainer and Clinical Hypnotherapist
- Dr. Ramona N. Mellott (Professor and Dean, Graduate College, Northern Arizona University, and our alumna of 1981-82 batch)
- Dr. Michael Mellott (Consulting School Psychologist, U.S.A.)
- Dr. Shekhar Ambardekar (eminent cardiologist at S.L. Raheja Hospital)
- Dr. Ashwini Bhalerao Gandhi (Consultant Gynecologist, P. D. Hinduja Hospital)
- Dr. Shruti R. Sardeshmukh (Lecturer at University of South Australia, Adelaide)
- Dr. Surabhi Patwardhan (Research Associate, Division of Gynecologic Oncology, St. Joseph's Hospital and Medical Center, Phoenix, Arizona)
- Dr. Carina Coulacoglou - a child psychologist, author, developer of The Fairy Tale Test and founder of the Fairy Tale Test Society in Greece.
- Dr. Shailaja Karve (Associate professor, Organizational Behaviour and Human Resource Management, K. J. Somaiya Institute of Management Studies and Research, Mumbai).

- Mr. Sameer Mallya - Research Assistant at Centre for Land Warfare Studies (CLAWS), New Delhi
- Dr. Prachi Kene - Assistant Professor, Department of Counseling, Educational Leadership, and School Psychology, Rhode Island, and a Licensed Clinical Psychologist at Rhode Island Cognitive Behavioral Therapy and Coaching, USA.
- Ms. Inka Achte - an award-winning film-maker from Finland (film- 'Alppikatu 25')
- Mr. Harish Sadani, Chief Functionary and Hon. Secretary, Men Against Violence and Abuse (MAVA).
- Dr. Neha Gothe (Assistant Professor in Kinesiology, Wayne State University; Director, Exercise Psycho-Physiology Research Lab)
- Ms. Deepti Puranik Shah (Assistant Director, Psychology Department, Helik Advisory Limited, Mumbai)
- Dr. Shubha Thatte (Clinical psychologist, Founder member and trustee of the Institute for Psychological Health at Thane)
- Ms. Mala Gaonkar (Clinical and community Psychologist working in Sirsi, Karnataka)
- Ms. Mridgandha Solapurkar (industrial psychologist, career counsellor and teacher of Psychology in Singapore) January 5, 2016
- Dr. Ramona N. Mellott (Professor and Dean, College of Education, Northern Arizona University, U.S.A.)
- Dr. Michael Mellott (Consulting School Psychologist, U.S.A.)
- Ms. Sushama Sathe (Practising Psychologist, Sydney, Australia)
- Dr. Prachi Kene (Assistant Professor, Department of Counseling, Educational Leadership, and School Psychology, Rhode Island College, and a Licensed Clinical Psychologist at Rhode Island Cognitive Behavioral Therapy and Coaching, USA)
- Ms. Sharmila Londhe Counselling Psychologist in Thane
- Dr. Anagha Barve (Counselor and Psychotherapist, Washington DC)

25 *Seminars / Conference / Workshops organized the source of funding*

a) National

01 - One-day National Workshop on 8th January, 2014

b) International Nil

26 *Student profile programme / course wise :*

Name of the Course/programme Psychology Single Major	Year	Applications received	Selected	Enrolled		Pass percentage
				M	F	
TYBA	2010-11	30	30	00	30	96.67%
TYBA	2011-12	41	32	02	30	100%
TYBA	2012-13	30	30	03	27	100%
TYBA	2013-14	44	32	00	32	96.87% (Sem 5) 100% (Sem 6)
TYBA	2014-15	43	32	02	30	96.87% (Sem 5) 93.75% (Sem 6)
TYBA	2015-16	59	32	01	31	96.87% (Sem 5) (Sem 6- result awaited)
TYBA	2016-17	54	32	01	31	N.A.

27 *Diversity of students:* All students are from the same state.

28 *How many students have cleared national and state competitive examination?*

- Ms. Vrushali Tare qualified in NET in November 2011
- Ms. Ruta Patwardhan qualified in NET in March 2013
- Ms. Irawati Joglekar qualified in NET held in Dec 2014
- Ms. Amruta Padhye qualified in the NET exam
- Mr. Meet Shinde qualified in the NET exam
- Mr. Sameer Mallya qualified in the NET exam held in June 2014.

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	Approximately 50%
<i>PG to MPhil</i>	-
<i>PG to PhD</i>	--
<i>PhD to Post-Doctoral</i>	--
<i>Employed</i>	
<ul style="list-style-type: none"> • <i>Campus selection</i> 	Nil

• <i>Other than campus recruitment</i>	
<i>Entrepreneurship / Self - employment</i>	Not known

30 *Details of infrastructural facilities*

<i>a) Library</i>	Departmental library with 404 books.
<i>b) Internet facility</i>	01
<i>c) Classroom with ICT</i>	01
<i>d) Laboratories</i>	01

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

No.	Activity details	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
i.	Talks for students	04	04	09	06	05	07
ii.	Film shows	02	02	01	-	02	-
iii.	Workshops/Symposium	-	-	01	-	-	02
iv.	Skits/street plays	04	01	-	-	-	-
v.	Research studies by students	05	01	-	-	05	02
vi.	Organization of Inter-Collegiate Competitions on Psychology	-	04	05	06	04	06
vii.	Felicitation of special achievers	03	05	01	-	-	-
viii.	Exhibition	01	01	-	-	-	-
ix.	Field visits	-	-	-	-	02	01
	Total	19	18	17	12	18	18

33 *Teaching methods adopted to improve student learning*

- Interactive Lectures and Group Discussions
- Discussions on current issues and events, newspaper articles, TV Programmes
- Sharing of real life experiences
- Quiz on Practicals
- Peer Supervision of Practicals at TYBA
- Role Plays and Skits (e.g. Statistical measures, Counselling techniques and therapy)

- Typed handouts with questions and guidelines for examination preparation
- Field Visits
- Guidance for Memory improvement (mnemonics)
- Effective use of Library Resources – Department Library with 404 classic and recent books, for reference and home reading
- PowerPoint presentations by teachers and students
- CDs of famous Psychology experiments shown
- Computer-based experiments as a part of T.Y.B.A syllabus
- CDs of talks by experts available in the department
- Screening of movies related to Psychology
- Collection of E-books on the computer
- Statistical analysis of experimental data on Excel and SPSS
- Additional information, TED talks, References of websites exchanged with past and current students through E-mails
- WhatsApp for effective spread of important information
- Clickers for class tests and evaluation of classroom learning outcomes
- Video Clippings of talks by experts

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities:* Nil

35 *SWOC analysis of the department and Future plans:*

STRENGTHS:

- Additional Educational Resources provided to the students; Department Library
- Use of modern methods - clickers, communication through e-groups
- Alumni - Close contact, support; e-group Rupmaanas
- Organization of collegiate and intercollegiate programmes through Maanas; Psynergy
- Personal attention and encouragement to students
- Sincere, focused and motivated teachers and students
- Team work and high group morale of staff and students
- Well-established 55-year old Department
- Good collection of classic and modern apparatus/instruments and Psychological tests

WEAKNESSES:

- Less number of Research projects undertaken by students

- Limited reaching out to other students and the society through community service programmes
- Remedial teaching not conducted in a regular, organized manner
- Less use of ICT (PPT, OHP) in everyday teaching

OPPORTUNITIES:

- Conducting short courses on personality development/life skills for students
- Encouraging students to undertake research projects
- Better use of technology in everyday teaching
- Conducting sessions for psychological evaluation and offering personalized guidance
- Efforts towards women empowerment/gender sensitization
- Formal collaboration with other Counseling/ Psychology related centres
- Organizing programmes for Junior College students

CONSTRAINTS / CHALLENGES:

- Time constraints due to the credit-based system from 2011-12
- Students for 3 papers of Psychology at TYBA not on par with those for 6 papers
- The books recommended for study by foreign authors Constraints / Challenges for the Department
- Ad-hoc appointments of 8 temporary teachers in last 10 years on the third post in the department
- The two senior teachers have many other academic and administrative responsibilities so, time constraints

FUTURE PLANS:

- To encourage students to conduct and present/publish research studies on various topics on Psychology.
- To organize collegiate and inter-collegiate programmes related to Psychology
- To undertake extension activities/social initiatives to promote a sense of social responsibility among students
- To start repair and renovation work in the department after collecting necessary funds from the alumni and largely completed in November 2015

EVALUATIVE REPORT OF THE DEPARTMENT OF STATISTICS

- 1 *Name of the department* Statistics
- 2 *Year of establishment* 1972
- 3 *Names of programmes* BSc (Statistics)
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system:* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:*
Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued:* Nil
- 9 *Number of teaching posts*

	Sanctioned	Filled
Professors	-----	-----
Associate Professors	03	03
Asst. Professors	03	01

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Vasundhara Govilkar (VRS – 06/06/2016)	MSc MPhil	Asso. Prof.	---	35	NIL
Vijaya Gokhale (Retired in August 2015)	MSc MPhil	Asso. Prof.	---	37	NIL
Vrinda Kanitkar	MSc	Asso. Prof.	----	26	NIL
Arati Daptardar	MSc MPhil	Assist. Prof.	---	24	NIL
A.R. Mehta (Joined in August 2015)	MSc	Assist. Prof.	---	01	NIL

- 11 *List of visiting faculty* Nil
- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher*

2015-16	2014-15	2013-14	2012-13	2011-12	2010-11
50%	25%	25%	40%	40%	40%

- 13 *Student – teacher ratio (program wise):*

2015-16	235:4
2014-15	630:5

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled:* One (Peon)
- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*
V. P. Kanitkar: MSc (Statistics)
A. G. Daptardar: MSc, MPhil (Statistics)
A. R. Mehta: MSc (Statistics)
- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:* Nil
- 17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received. :* Nil
- 18 *Research Centre / facility recognized by the University:* Nil
- 19 *Publications*
e) *Publication per faculty* Nil
f) *Number of papers published in peer reviewed journals (national / international) by faculty and students:* Nil
g) *Number of publications in International Database:* Nil
h) *Monographs, Chapter in Books, Books edited, Books with ISBN/ISSN numbers, Citation Index, SNIP, SJR, Impact factor, H-index:* Nil
- 20 *Area of consultancy and income generated:* Nil
- 21 *Faculty as members in a) National committee b) International committee c) Editorial boards:* Nil
- 22 *Student projects:* Nil
- 23 *Awards / Recognitions received by faculty and students:* Nil
- 24 *List of eminent academicians and scientists / visitors to the department:* Nil
- 25 *Seminars / Conference / Workshops organized the source of funding*
a) *National:* Workshop on Use of SPSS in Statistical Data Analysis on 4th March, 2011 funded by alumnus of statistics department.
b) *International:* Nil

26 *Student profile programme / course wise :*

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			M	F	
BSc 2015-16	46	46	23	23	Result not declared
BSc 2014-15	26	26	08	18	88.5%
BSc 2013-14	18	18	04	14	77.78%
BSc 2012-13	37	37	15	22	91.89%
BSc 2011-12	15	15	05	10	80%
BSc 2010-11	13	13	06	07	84.62%

27 *Diversity of students*

Course	% from same State	% other State	% from abroad
BSc 2015-16	100%	Nil	Nil
BSc 2014-15	100%	Nil	Nil
BSc 2013-14	100%	Nil	Nil
BSc 2012-13	100%	Nil	Nil
BSc 2011-12	100%	Nil	Nil
BSc 2010-11	100%	Nil	Nil

28 *How many students have cleared national and state competitive examination?: Nil*

29 *Student progression*

Student progression	Against % enrolled					
	15-16	14-15	13-14	12-13	11-12	10-11
UG to PG	---	23%	18%	11%	13%	8%
PG to M.Phil.	---	---	---	---	---	---
PG to Ph.D.	---	---	---	---	---	---
Ph.D. to Post-Doctoral	---	---	---	---	---	---
Employed • Campus selection • Other than campus recruitment	---	---	12%	---	---	---
	---	7%	35%	---	---	---
Entrepreneurship/Self-employment	---	---	---	---	---	---

30 *Details of infrastructural facilities*

- | | |
|-----------------------|-----|
| a) Library | Nil |
| b) Internet facility | Yes |
| c) Classroom with ICT | Nil |
| d) Laboratories | Yes |

31 *Number of students receiving financial assistance from college, university, government or other agencies:* Nil

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

Year	Lectures
2015-16	<ul style="list-style-type: none"> Lecture on application of SAS by Ms. Pradnya More, Assistant Center Manager, Ultramax Infonet Technology and Mr. Arjun Soni, Technical trainer Ultramax Infonet Technology.
2014-15	<ul style="list-style-type: none"> Lecture on Applications of R-Software in Statistics by Dr. Neeraj Hatekar-Dept. of Economics, University of Mumbai.
2011-12	<ul style="list-style-type: none"> Lecture on Career in Actuarial Science by Prof. R. J. Shah, M.D, D.S. Actuarial Services on 16th August 2011. Lecture on Challenges in Public Relations by Mr. Umesh Kashikar, Public Relations Officer, Rajbhavan on 28th January 2012. Lecture on Overall Personality Development by Mr. Shahil Joshi.

33 *Teaching methods adopted to improve student learning*

Regular tests of T.Y.B.Sc students were conducted and feed back was given to the students.

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Nil

35 *SWOC analysis of the department and Future plans*

STRENGTHS

- Well-experienced teaching staff.
- Working as paper-setters, examiners or moderators at University Examinations.
- Teachers have interaction with students of all the three faculties.

WEAKNESSES

- Insufficient teaching staff.
- Research application of the subject remained unexplored.
- Inadequate use of ICT in teaching.

OPPORTUNITIES

- To learn and use different statistical packages such as SPSS, Minitab for data analysis.
- Exploring areas like clinical research, data analysis, for Industry-academia tie-up.
- To start certificate courses in statistical applications.

CHALLENGES

- Due to multi-faculty subject, efficient allocation of department's human resources is a critical issue.
- To incorporate modern techniques evolved in the subject.
- To design a market oriented syllabus.

FUTURE PLANS

- To arrange educational visits to institutions in which statistics is applied.
- To arrange guest lectures of renowned persons.

EVALUATIVE REPORT OF THE DEPARTMENT OF ZOOLOGY

- 1 *Name of the department* Department of Zoology
- 2 *Year of establishment* 1953
- 3 *Names of programmes* UG – FYBSc, SYBSc and TYBSc (Zoology)
FYBSc (Sem I and Sem II)
(Combination – CBZ, CPZ)
SYBSc (Sem III and Sem IV)
(Combination – CZ, BZ)
TYBSc Zoology (Sem V and Sem VI)
(with Marine Science, Applied Component)
PG – M.Sc. (Oceanography) and M.Sc. (Animal Physiology)
PhD – 5 students registered since 2012.
- 4 *Name of interdisciplinary courses and the departments/units involved:* Nil
- 5 *Annual/Semester/Choice based credit system* Credit Based Semester Grading System
- 6 *Participation of the department in the courses offered by other departments:* Nil
- 7 *Courses in collaboration with other universities etc.:* Nil
- 8 *Details of courses/programs discontinued :* Nil
- 9 *Number of teaching posts*

Dr. Madhavi Indap appointed as Professor Emeritus (Adjunct) by UGC.

	Sanctioned	Filled
Professors	--	--
Associate Professors	01	01
Asst. Professors	03	03

10 *Faculty profile*

Name of the faculty	Qualification	Designation	Specialization	Experience	PhD students guided
Dr. Madhavi Indap	PhD	Emeritus Professor (Adjunct)	Marine Zoology	38	05
Dr. Meenakshi Sundaresan	PhD	Associate Professor	Cytology	32	
Mr. Nitin L. Wasnik	MSc	Assistant Professor	Oceanography	15	
Dr. Minakshi Gurav	PhD	Assistant Professor	Endocrinology	2 year 4 months	

Dr. Gayathri N.	PhD	Assistant Professor	Special Zoology	2 year 4 months	
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- 11 *List of visiting faculty* Recognized PG teachers from University of Mumbai engage lectures for MSc I and MSc II students as the Department is centre for PG Lectures (in Zoology) for University of Mumbai.

- 12 *Percentage of lectures delivered and practical classes handled (programme wise) by temporary teacher:* 35%

- 13 *Student – teacher ratio (program wise)*
 FYBSc - 11:1
 SYBSc – 9:1
 TYBSc – 3:1
 M.Sc. – 10:1

- 14 *Number of academic support staff (technical) and administrative staff; sanctioned and filled*

1. Mr. A. B. Damse (Lab Assistant)
2. Mr. R. Kumavat (Lab Assistant)
3. Mr. Y. G. Salunkhe (Lab Attendant)
4. Mr. D. R. Bhagat (Field Collector)
5. Mr. J. G. Gosawi (Lab Attendant)
6. Mr. S A. Patil (Lab Attendant)
7. Ms. Rohini Patil (Peon)

Post	Sanctioned	Filled
Lab Assistant	02	02
Lab Attendant	03	03
Field Collector	01	01
Peon	01	01

- 15 *Qualifications of teaching faculty with DSc /D Litt / PhD/ MPhil / PG*

Name	Qualification
Dr. Meenakshi Sundareshan	PhD
Mr. Nitin L. Wasnik	MSc
Dr. Minakshi Gurav	PhD
Dr. Gayathri N.	PhD

- 16 *Number of faculty with ongoing projects from a) National b) International funding agencies and grants received*

No. of faculty – 03 (Dr. Madhavi Indap, Dr. Meenakshi Sundareshan, Dr. Gayathri N.)

Grants Received – None

1. Dr. Madhavi Indap – DBT Approved Rs. 50 Lakhs but Grant not received as on 29/04/2016
2. Dr. Meenakshi Sundareshan and Dr. Gayathri N. - UGC Approved Rs. 4.25 Lakhs but Grant not released as on 29/4/2016

MAJOR RESEARCH PROJECT

Principal Investigators: Dr. Madhavi Indap (D. G. Ruparel College) and Dr. S. Chiplunkar (ACTREC)

Sanctioning agency: DBT

Title of Proposal: 'Investigation of chemical nature of bioactive compounds from the active fractions of *Turbo brunneus* extract and to study their mode of action in regulation of osteoclastogenesis'

Amount Sanctioned: Rs. 50 Lakhs

Duration of project: 3 years

Status: Approved

Principal Investigators: Dr. Madhavi Indap (D. G. Ruparel College)

Sanctioning agency: UGC XII Plan 2014 -15

Title of Proposal: 'Antibacterial cytotoxic and immunomodulatory potential of marine organisms secondary metabolites'

Amount Sanctioned: Rs. 19,97,600 Lakhs

Duration of project: 3 years

Status: Applied.

Principal Investigator: Dr. Gayathri N

Co-investigator: Dr. Meenakshi Sundaresan

Sanctioning agency: DBT

Title of Proposal: 'Molecular Characterization of Bioactive Constituents from selected cephalopods from west coast'

Amount Quoted: Rs. 45,77,057.50

Duration: 3 years

Status: Applied

MINOR RESEARCH PROJECT

Principal Investigator: Dr. Meenakshi Sundaresan

Co-investigator: Dr Gayathri N.

Sanctioning agency: UGC XII Plan 2014 - 15

Title of Proposal: 'Biochemical profile of cadmium toxicity in *Tilapia mossambica* (Peters)'

Amount Sanctioned: Rs. 4.25 Lakhs

Duration of project: 2 year

Status: Ongoing.

Principal Investigator: Dr. Meenakshi Sundaresan

Co-investigator: Dr. Minakshi Gurav and Mr. Nitin Wasnik

Sanctioning Agency: Ministry of Environment, Forests and Climate Change (MoEF & CC), Government of India, New Delhi, Indo-German Biodiversity Programme, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Title of Proposal: 'Effect of industrial development on biotic and abiotic components of Thane creek'

Amount Quoted: 17 lacs
 Duration: 1 year
 Status Applied: **Applied**

Principal Investigator: Mr. Nitin L. Wasnik

Sanctioning Agency: UGC XII Plan 2014-15

Title of proposal: 'Comparative assessment of organic-inorganic interactions in some molluscs from Mumbai coast'

Amount quoted: Rs. 4,90,000/-

Duration of project: 2 years

Status: **Applied.**

17 *Department projects funded by DST-FIST, UGC, DBT, ICSSR etc. and total grant received.*

Year	Funding Agency	Amount
2007 – 2010	UGC	Rs. 6,41,000/-
2009 – 2011	DBT	Rs. 28,59,000/-
2014 – 2017	DBT	Rs. 50,00,000/-
2015 – 2017	UGC	Rs. 4,50,000/- (Yet to receive)

18 *Research Centre / facility recognized by the University* Central Research Facility for Basic and Applied Sciences

19 *Publications*

a) Publication per faculty

Name of faculty	Publication (Papers, Abstracts)
Prof. Madhavi Indap	05
Dr. Meenakshi Sundaresan	17
Dr. Minakshi Gurav	23
Dr. Gayathri N.	26

b) Number of papers published in peer reviewed journals (national / international) by faculty and students

- Dr. Meenakshi Sundaresan: 11
- Dr. Minakshi Gurav: 10
- Dr. Gayathri N.: 11

c) Number of publications in International Database

- Dr. Meenakshi Sundaresan: 11
- Dr. Minakshi Gurav: 10
- Dr. Gayathri N.: 09

d) Monographs

Nil

e) Chapter in Books

Title with page nos.	Book Title, editor & Publisher	ISSN / ISBN No.	Whether peer reviewed
National Parks and Sanctuaries of India, pgs 47-81	Ecology and Wildlife Management University of Mumbai, Ratnagiri sub-center	ISBN No. 978-81-931459-2-0 (Year 2015)	Yes

f) Books edited

Nil

g) Books with ISBN/ISSN numbers

Nil

h) Citation Index

i) SNIP

j) SJR

k) Impact factor

l) H-index

} Refer Research Annexure

20 *Area of consultancy and income generated*

1. Consultation to Terracon Ecotech Pvt. Ltd. on Environment Impact Assessment (EIA) on marine water analysis (chemical and biological) for Maharashtra Trans Harbor Link (MTHL), Sewri, Nhava-Seva sea link, Dec-2011.
2. Consultancy to JSW Steel Pvt. Ltd. on Environment Impact Assessment (EIA), June 2014 (**Rs. 3, 07,000/-**)
3. Consultancy to Terracon Ecotech Pvt. Ltd. on Environment Impact Assessment, June 2014 (**Rs. 15,750/-**)
4. Consultancy to JSW Steel Pvt. Ltd. on Environment Impact Assessment (EIA) for Nandagaon-Tarapur shoreline, Mumbai, February 2015 (Rs. 54,000/-)
5. Consultation to Fine Envirotech Engineers for microbial analysis of Ulhas river from Industrial area, April 2015 (**Payment pending**)
6. Consultancy to Terracon on Phytoplankton and Zooplankton analysis of water from Daman and Silvasa, September 2015 (**Rs. 7000**)
7. Consultancy to Terracon on Phytoplankton and Zooplankton analysis of water from Daman and Silvasa, February 2016 (**Rs. 7000**)
8. Consultancy to Terracon on Phytoplankton and biological parameters of water from 'Alang' ship Breaking Yard, Bhavnagar, June 2015 (**Rs. 79,000**)
9. Consultancy to Terracon on Phyto and Zooplankton Analysis of Navi Mumbai Creek, February 2016 (**Rs. 23,000**)

21 *Faculty as members in*

a) National committee, b) International Committee c) Editorial Boards

Dr. Meenakshi Sundaresan – International

1. Life member of Bionano Journal.
 2. Life member of Indian Science Congress.
 3. Member, Volunteer Committee, Women Science Congress, Indian Science Congress (2014-15)
- National**
1. Co-convenor and Member, Board of Studies in Zoology to prepare revised syllabus for TYBSc (2012 – 2013).

2. Co-convenor and Member, Board of Studies in Zoology to prepare revised syllabus for FYBSc 2015-16.

**Nitin Wasnik –
National**

1. Life Member (000165) of Association of Teachers in Biological Sciences (ATBS)
2. Co-convenor for M.Sc. II (Biotechnology) Paper VI, University of Mumbai.
3. Member – Special Invitee (FYBSc Syllabus Revision Committee) for FYBSc Revised Syllabus 2015 – 16.

**Dr. Minakshi Gurav –
International**

1. Member, Volunteer Committee, Women Science Congress, Indian Science Congress (2014-15)
2. **Co-editor** for ‘**The Proceeding-Eco Revolution 2012**’ of International Conference on Environment and Humanities – Eco Revolution 2012 Organized by Sadaham Sewana, Sri Lanka and Eco-Needs Foundation, India in Collaboration with Ministry of Power and Energy, Sri Lanka and Ministry of Environment and Natural Resources, Sri Lanka at Colombo, Sri Lanka, August 18-20, 2012
1. Member, Bionano Frontier
2. Member, Indian Science Congress
3. Global Association for Basic and Applied Research, Joint Secretary

National

1. Member, All India Association of Teachers for Biological Sciences
2. Member, Journal of Aquatic Biology
3. Member, Board of Studies in Zoology to prepare revised syllabus for FYBSc 2015 -16.
4. Member Organizing Committee, Inter-University Research Convention – Avishkar (2011-2012, 2012-2013)
5. District Co-ordinator, Inter-University Research Convention – Avishkar (2009-2010, 2010-2011, 2012-2013)
6. Member, Organizing Committee, Youth Festival, University of Mumbai (2012-2013)

Editor and Co-editor

7. **Editor** for ‘**The Proceeding 2010**’ of National Seminar on ‘Frontiers in Biotechnology’ Organized by Department of Biotechnology, Changu Kana Thakur Arts, Commerce and Science College, New Panvel, Maharashtra, India, December 3-4, 2010
8. **Co-editor** for ‘**The Proceeding-NSNFA 2012**’ of National Seminar on ‘Nanotechnology: Fundamentals and Applications’ Organized by Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, New Panvel, Maharashtra, India, April 27-28, 2012
9. **Co-editor** for ‘**The Proceeding-NSEPM 2010**’ of National Seminar on ‘Environmental Pollution and Monitoring’ Organized by Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, New Panvel, Maharashtra, India, September 17-18, 2010
4. **Co-editor** for Bionano Frontier

**Dr. Gayathri N. –
National committees**

1. Life Member of Indian Science Congress
2. Life Member of Marine Biological Association of India
3. Member – Special Invitee (FYBSc Syllabus Revision Committee) for FYBSc Revised Syllabus 2015 – 16.

4. Team Manager for University of Mumbai in the 10th Maharashtra State Inter-University Research Convention: Avishkar-2015 (10th – 12th January, 2016).
5. Member of the panel of experts to evaluate various institute awards of CIFE, Mumbai (6th August 2015).
6. Member of Organizing Committee for University Final Round of Avishkar Research Convention held in D.G. Ruparel College (17th December, 2015).
7. Member of Organizing Committee for the Lady Tata Memorial Trust sponsored Workshop on “Biostatistics in Teaching and Research” organized by Department of Zoology, D.G. Ruparel College, Mumbai (4th – 5th September, 2015).
8. Rapporteur in the Expert Consultation on “Marine Biology and Biodiversity with emphasis on preparation of Instruction Material/Manual/Book” at Central Institute of Fisheries Education, Kolkata held on 27th – 28th December, 2014.

International Committees

1. Academic Member of Athens Institute for Education and Research, Greece.
2. Life Member of International Journal of Life Sciences

Editorial Boards

1. Journal of Pharmaceutical and Biological Sciences. ISSN: 2320-1924 (Ref ID: JPABS/EB/035)
2. International Journal of Life Sciences. ISSN:2320-7817 (Print) 2320-964X (Online)

Reviewer for Research Journals

- International Invention Journal of Medicine and Medical Sciences ISSN:2408-7246
Bioinfo Publications Journal of Fisheries and Aquaculture. ISSN: 0976-9927 (Print) 0976-9935 (Online) (Membership ID: EAE9A16AAC dt. August 3, 2015)

22 *Student projects*

a) Percentage of students who have done in-house projects: 3%

b) Percentage of students placed for projects in organizations outside the institutions: Nil

23 *Awards / Recognitions received by faculty and students*

Dr. Meenakshi Sundaresan –

1. PhD recognition on 15th June 2015.
2. Best oral presentation award for the paper “Effect of Cadmium Chloride on the gill of *Tilapia mossambica* (Peters) presented in International Conference – Emerging trends and challenges in Science and Technology, 3-5 November 2014 organized by Bionano Frontier and International Society of Science and Technology in association with Sinsil International Ltd., held at Bangkok, Thailand.

Nitin Wasnik –

1. Post Graduate recognition for M.Sc. (By Papers), 2nd May 2012.
2. Consolation Prize for paper entitled “FTIR and Raman Spectroscopy – A non – destructive approach to study biomineralization in *Nerita oryzarum* (Recluz, 1841)” presented as part of credit work for PhD program at UGC and ICSSR sponsored National Conference on ‘Emerging Trends in Sustainable Development’ (ESTD-2015) organized by Department of Zoology, Kirti College, Mumbai on 23rd and 24th January 2015.

Dr. Gayathri N. –

1. Received of International Travel Grant of UGC under Travel Grant Scheme (Plan) for travel to China to deliver talk on “Bioactive Protein Extracts from Octopus Salivary Glands” as invited speaker in the World Congress of Marine Biotechnology WCMB-2014 at BIT Congress, Dalian, China 16th – 18th October, 2014. (Rs. 137052/-) F. No.: 6-520/2014 (TG).
2. First Prize in Oral Presentation in the UGC sponsored National Conference on Recent Advances in Environmental Sciences for the topic – Generation of electricity from sugarcane bagasse, organized by Dr. P. R. Ghogrey Science College, Dhule on Jan 2014.

Dr. Minakshi Gurav

1. Indira Gandhi Sadbhavana Award by Citizen Integration Peace Society, New Delhi (2011-2012)
2. ‘Best Teacher Award’ by Shri. Ramsheth Thakur Samajik Vikas Mandal, Panvel (2010-2011)

24 *List of eminent academicians and scientists / visitors to the department*

- Mr. Mukund Verma, Director, Verma Pharmacy, Pune
- Mr. Divekar, Faculty Biotech Institute of Management, Pune
- Dr. Khandekar, Director, Bioinformatics Department, Pune
- Ms. Swati Mehta, Research Associate at Bioinformatics and Biotechnology, University of Pune
- Mr. Sushil Sule, General Manager, BD & CR Abbott, covering territory of India, Nepal and Srilanka
- Dr. Sujala Pathare, Manager, Abott pharmaceuticals
- Dr. Monica Chavan, Senior Manager, Environment and EIA coordinator in Fine Envirotech Engineers
- Dr. Sumant Karnik, Director, National Plasma Fractionation Centre
- Mr. Rahul Kolekar, National Institute of Oceanography
- Ms. Yashada Kulkarni, Analyst in Zoology, Terracon Ecotech
- Mr. Rajdeep Poddar, Validation Analyst, PARAXYL International, India Private Ltd.
- Mr. Pushpdeep Mishra, project Manager, IIT Mumbai
- Dr. Yogesh Pawade, KEM Hospital, Mumbai
- Dr. Rajen Daftary, Anesthetist, JaslokHopsital
- Dr. Swati Daftary, Anesthetist, Sion Hospital
- Dr. Nihar Mehta, Cardiologist, Jaslok Hospital
- Prof. Dr. Suresh Kumar Sharma, Professor, Department of Statistics, Panjab University
- Dr. Rajesh Dikshit, Tata Memorial Hospital, Parel, Mumbai
- Dr. Srinath Jagannathan, TISS, Mumbai

25 *Seminars / Conference / Workshops organized the source of funding*

a) National, b) International

Event	Topic	Date	Level
Seminar	<i>Career Counselling</i>	15 th January 2011	Collegiate
Workshop	<i>TYBSc Marine Science revised syllabus</i>	8 th February 2011	University Level
Workshop	<i>“Bioinformatics”</i>	19 th – 20 th February 2011	State Level Sponsored by LTMT
Seminar	<i>Career Counselling</i>	November 2012	Collegiate
Workshop	<i>Separation Techniques in Biological Systems</i>	11 th and 12 th July 2012	Collegiate
Workshop	<i>Bioinformatics for Beginners</i>	1 st to 3 rd February 2014	Collegiate
Workshop	<i>Biostatistics in teaching and research</i>	4 th – 5 th September 2015	State Sponsored by LTMT

26 *Student profile programme / course wise:*

TYBSc (Zoology)

Year	Enrolled		Pass %
	M	F	
2010 – 2011	08	03	100%
2011 – 2012	06	04	100%
2012 – 2013	02	15	100%
2013 – 2014	04	16	100%
2014 – 2015	07	13	100%
2015 – 2016	04	13	100%

27 *Diversity of students*

Course	% from same State	% other State	% from abroad
BSc	100	Nil	Nil
MSc	100	*	Nil

*Ms. Hiya GuhaMazumder from Kolkata joined M.Sc (Animal Physiology) program (2013 -15)

*Ms. Aparna Shukla from Delhi University joined M.Sc. (Animal Physiology) program (2015-2017)

28 *How many students have cleared national and state competitive examination?*

Nil

29 *Student progression*

Student progression	Against % enrolled
<i>UG to PG</i>	40 – 50%
<i>PG to MPhil</i>	---
<i>PG to PhD</i>	1%
<i>PhD to Post-Doctoral</i>	----

<i>Employed</i>	
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	NIL
<i>Entrepreneurship / Self - employment</i>	10%

30 *Details of infrastructural facilities*

a) Library

Department library has 125 books for reference.

b) Internet facility

One Desktop with internet facility

c) Classroom with ICT

Nil (Department provided with Laptop and Projector for use of ICT during lectures)

d) Laboratories

Labs are well equipped for UG and PG course work. The Central Laboratory Facility is used by PhD students in Zoology.

31 *Number of students receiving financial assistance from college, university, government or other agencies*

The following projects were funded by college under the *R-Quest* scheme:

Sr. No.	Name	Project	Amount
1	Ujali Shirodkar	Role of Visual and Chemical Cues in Feeding Behavior of a Lepidopteron Species.	₹ 4,000/-
2	Bhagyashree Ghag	Antibacterial and Immuno-modulatory Potential of a Marine Vertebrate and its Associated Bacteria.	₹ 4,000/-
3	Shraddha Shirsat	Bioactive Potential of Marine Invertebrate and Associated Bacteria.	₹ 4,000/-

32 *Details on student enrichment programmes (special lectures / workshops / seminar) with external experts*

- A career counselling seminar was organized by the department on 15th January 2011. The seminar included talks on “Career opportunities in clinical research” by Mr. Mukund Varma (Director, Varma Pharmacy, Pune) and “Biotechnology Management” by Mr. Divekar (Faculty at Biotech. Institute of Management, Pune). The speakers talked about various avenues and prospective job opening for students after graduating in Basic Sciences (Botany and Zoology).
- A career counselling seminar was organized by the Department, Alumni -Mr. Sushil Sule (General Manager BD & CR, Abbott, covering the territory of India, Nepal and Sri Lanka), Dr. Sujala Pathare (Manager, Abbott pharmaceutical) and Dr. Monica Chavan (Senior Manager, Environment and EIA Co-ordinator in Fine Envirotech Engineers) presented a talk on -Excellence in the career of your choice”. Besides these, our past students Dr. Sumant Karnik (Director, National Plasma Fractionation Centre) Rahul Kowlekar (NIO), Yashada Kulkarni (Analyst Zoology, Terracon Ecotech Pvt. Ltd) also shared their experiences with the students.

- A two day workshop on “Bioinformatics for Beginners” was organized by the Department for the students of S.Y. and T.Y. BSc on February 1st and 3rd, 2014. Two eminent personalities, Mr. Pushpdeep Mishra, Project Manager, IIT, Mumbai and Mr. Rajdeep Poddar, Validation Analyst, PARAXEL, International, India Private Ltd. were invited as resource persons for the workshop.
- Dr Yogesh R. Pawade on ‘Enzymes as diagnostic tools’ on 26th July 2014.
- Dr. Rajen Y. Daftary on ‘Ill effects of self-medication’ 7th February 2015.
- Dr. Nihar Mehta, Cardiologist, Jaslok Hospital on ‘Win with Wellness’ on July 16, 2015

33 *Teaching methods adopted to improve student learning*

- Mentor mentee program
- Bridge course
- Extensive use of ICT
- Interactive sessions (quiz, lecture synopsis, group discussions)
- Excursions, field visits
- Visit to Research Institutes / Laboratories

34 *Participation in Institutional Social Responsibility (ISR) and Extension activities*

Staff and students of the Department provided 20 charts on different topics to BMC, City of Los Angeles English Medium School, Manmala Tank Road, Matunga (W), Mumbai on February 20, 2014.

35 *SWOC analysis of the department and Future plans*

STRENGTHS:

- Experienced teaching staff with multifaceted research potential.
- Organized Departmental Library accessible to UG/PG students and staff.
- Well maintained museum of slides and specimens.

WEAKNESSES:

- Need to initiate vocational/add-on courses for students.
- Meager fund generated through consultancy services.
- Paucity of externally funded Research Projects

OPPORTUNITIES:

- Scope to offer vocational training to the students.
- To generate more funds through research and consultancy.
- To nurture research aptitude in students.

THREATS (CHALLENGES):

- Increasing competition from contemporary trends in life sciences.
- Limited scope to expand the space in laboratory for UG/PG student research.
- Finding suitable option for replacing dissection.

FUTURE PLANS:

- Generation of funds through research projects.
- Strengthening research at UG and PG level.
- Providing a platform for dissemination of Research.
- Organization of seminars / conferences / guest lectures / workshops.
- Expansion of Departmental Library / Learning resources.
- Establishing industrial collaborations for training / research / tie-ups.

Annexure no. Title

<i>1</i>	University Approval and Affiliation Certificates
<i>2</i>	UGC 2f and 12b Certificates
<i>3</i>	Research Profile
<i>4</i>	Master Plan
<i>5</i>	Library Layout
<i>6</i>	Previous NAAC Accreditation Certificates
<i>7</i>	Peer Team Report of Previous Accreditation
<i>8</i>	IT Resources and License Details
<i>9</i>	Abbreviations

ANNEXURE 3 - RESEARCH PROFILE

Academic Year: 2010-11

FACULTY OF ARTS

Department: Geography

- Deepali Bhide
 - “Participation of Indian Women in workforce 1991-2001” was presented at the annual conference of National Association of Geographers, India (NAGI) conducted by the Department of Geography, Punjab University, Chandigarh from 19th November to 21st November 2010.

Department: Philosophy

- Dr. Anupama Mujumdar
 - “Mysticism” was presented at an international conference Mysticism without bounds held from 5th to 8th Jan. 2011, organized by Christ University, Bangalore. (2) “Spirituality: The need of an Hour” at the UGC sponsored national conference on ‘Women’s quest for equality in India: Promises, problems and prospects on 9th and 10th Jan. 2015 at K. G. Joshi college of Arts and N. G. Bedekar college of Commerce. The paper is published in the conference proceeding with the ISBN no: 978-81-922741-4-0.(National, Conference Proceedings)
- Mr. Sandip Kadam
 - “Mysticism in Jnaneshvari : The role of Guru in Mystic Experience” was presented at an International Conference on Mysticism without Bounds held from 5th to 8th Jan, 2011, organised by Christ University, Bangalore

Department: Political Science

- Dr. Avinash Kolhe
 - Presented Research paper at Pune in a seminar organized by the Aikyabharati Pratishtans Aikyabharati Research Institute on 13th February, 2011

Department: Psychology

- Dr. Neeta Tatke
 - “Emotional Intelligence and Explanatory Style as a Function of Participation in Mallakhamb” published in Conference volume of 3rd Annual International Conference -Physical Education Sport and Health, Rumania. ISSN 1453-1194. International, Peer reviewed, Conference proceedings.

FACULTY OF SCIENCE

Department: Botany

○ Dr. Vikas Golatkar

- Published paper titled “Preparation of composts from weed residues and testing their effect on arbuscular mycorrhizal population”, by Ambiye N.B. and V. V. Golatkar in Journal of Plant Disease Sciences. 5 (1): 79-82 (2010). (National, Peer reviewed, Impact Factor-NA, Print ISSN: 0973-7456. Online ISSN: 0976-2388)
- Published paper titled “Screening of weed, Lantana camara L. for its antibacterial activity”, by Ambiye N.B., and V.V. Golatkar in Journal Bionanofrontier 3 (2): 276-281 (2010). (National, Peer reviewed, e-journal, Impact Factor-0.233, ISSN 0974-0678)

Department: Chemistry

○ : Dr. Rajan Rele.

- “Simple extractive spectrophotometric Determination of rupatadine as rupatadine fumarate from pharmaceutical” Formulation. International Journal of chemical Sciences, 8(1), 22-28, 2010 . (ISSN: 0922-768X) (International, Peer reviewed, Impact factor : N/A, Scopus indexed)
- “A validated simple titrimetric method for the quantitative determination of rupatadine as rupatadine fumarate from pharmaceutical dosages”, Analytical chemistry An Indian Journal, 8(4), 561-564, 2009. (ISSN: 0974-7419) (International, Peer reviewed, Impact factor N.A., Google scholar)
- “Simultaneous determination of paracetamol and ibuprofen from combined dosage formulation by HPTLC method”. Analytical chemistry: An Indian Journal, 9(1), 151-155, 2010. (ISSN: 0974-7419) (International, Peer reviewed, Impact factor n.a., Google scholar)
- “RP-HPLC technique for determination of sodium alginate from oral suspension”. International Journal of Pharm-Tech Research, 2 (2), 1634-1638, 2010 ((ISSN: 0974-4304) (CODEN (USA): IJPRIF) (International, Peer reviewed, Impact factor 0.3, Scopus indexed)
- “Development and validation of particle size method for Rabeprazole sodium using laser diffraction technique”. Inventi rapid: Pharm Ana & Qual Assur, Vol. 1(1) , 83-86, 2010. (ISSN: 0976-3813) (International, Peer reviewed, Impact factor N.A., Google scholar)
- “Simple spectrophotometric methods for determination of piroxicam in pharmaceutical formulation”, International journal of Chem Tech, Research, 2 (4), 2173-2176, 2010. (ISSN: 0974-4290) (International, Peer reviewed, Impact factor 0.3, Scopus indexed)
- “Simultaneous determination of ciloxacin hydrochloride and

dexam-ethasone in ophthalmic solution” by RP-HPLC Asian journal research chem. , 3(3), 673-677, July-sept-2010. (ISSN: 0974-4169) (International, Peer reviewed, Impact factor :N.A. Google scholar)

- “Estimation of Lornoxicam and Diacerin in dosage form by simultaneous equation and Q-analysis method using UV spectroscopic technique”. International Journal of pharma and Bio Sciences.
- “Ultra-Violet Spectrophotometric Method for Estimation of Azelnidipine from the Bulk drug and pharmaceutical formulation”. Asian journal Research Chem. 3(4), 1-3,2010. (ISSN: 0974-4169) (International, Peer reviewed, Impact factor :n.a. Google scholar)
- “Reverse phase high pressure liquid Chromatographic Technique for determination of Carbocisteine from pharmaceutical formulation”. , Journal of Chemical and Pharmaceutical Research, 2(4): 2430.2010 (ISSN: 0975-7384). (International, Peer reviewed, Impact factor 0.32, Scopus)
- “Simultaneous RP-HPLC determination of Latanoprost and Timolal maleat in combined pharmaceutical dosage form”., Journal of chemical and pharmaceutical research, 3(1), 138-144, 2011, (ISSN:09757384) (International, Peer reviewed, Impact factor 0.32, Scopus)
- “A validated non aqueous potentiometric titration method for the quantitative determination of Azelnidipine from pharmaceutical preparation”, Journal of chemical and pharmaceutical research, 3(3), 1-5, 2011. (ISSN:0975-7384) (International, Peer reviewed, Impact factor 0.32, Scopus)
- “Reverse phase high pressure liquid Chromatographic Technique for determination of Oxalamine citrate from pharmaceutical formulation”., Research journal Pharm and Tech, 4(5) 787-789, 2011. (ISSN: 0974-3618) (International, Peer reviewed, Impact factor N.A., Scopus)
- “Simultaneous RP HPLC determination of Diclofenac potassium and famotidine in pharmaceutical preparations’. Research Journal Pham. And Tech., 4(4), 638-641,2011 (ISSN: 0974-3618) (International, Peer reviewed, Impact factor N.A., Scopus)

○ **Dr. Krishnakant T. Waghmode**

- “Microwave Promoted Solvent-Free Biginelli Reaction for the one pot Synthesis of Dihydropyrimidin-2-(1H) -ones catalyzed by Sulfamic acid”, Asian Journal of Chemistry, Vol.23, No.12 (2011) 1, Jan-Feb.2012, pp.5217-5219., ISSN NO.: 0975-423X (International, Peer reviewed, Impact factor 0.75, Scopus)

Department: Mathematics

- Dr. Abhaya M. Chitre
 - 'On edge-3-equitability of K_n -union of gears' was presented in the International conference on Recent trends in Graph Theory and Combinatorics, ICRTGC-2010, 12-15, August 2010, Cochin, India (A Satellite Conference of the International Congress of Mathematicians (ICM-2010)) organized by the Department of Mathematics Cochin University of Science and Technology, Cochin, India.
 - 'On 3-equitability of one edge union of shells' was presented in the International Conference on Mathematics and Computer Science (ICMCS 2011) held on January 7-8, 2011. This paper was published in the Proceedings of ICMCS (ISBN 978-81-920490-0-7) p.g. no. 39-42 (international and peer reviewed).

Department: Zoology

- Dr. Madhavi Indap
 - Protective effect of carotenoids from marine crab *Scylla serrate* on cyclophosphamide-induced clastogenicity – S. R. Parab and Madhavi Indap. Asian Journal of Microbiology, Biotech. Environ. Sci, 2010, 21(1), 119 – 126

Department: Library

- Dr. Pradip Karnik
 - “Mumbai Marathi Granthasangrahalayache Sanskrutic- Vangmayeen Yogadan”, was published in the journal Marathi Sanshodhan Patrika, 56:2 Jan-Feb-March 2010, Pg. 5-45, ISBN-0542-6425 . 2013-201. (National).
 - A research paper titled Key Words'-A boon for OPAC search engine in Academic Library was published in the International Journal 'A Knowledge dissemination through libraries and information centers' published by Management Libraries Network, New Delhi, Indian Institute of Health Management Research, Jaipur and KBD Publication, New Delhi, 2010, Pg. 571-576, ISBN-978-81907999-5-9 (International Conference proceeding)

Academic Year: 2011-12

FACULTY OF ARTS**Department: English**

- Hanumant Lokhande
 - “The Image of Krishna in Kamala Das Poems” was published in the Souvenir of the national seminar on The Influence of the Mahabharata in the Ramayana on Indian English Literature held at Y. M. College, Pune (February 2012) pg. 179-184, ISBN-978-81-92438-0-8. (Conference Proceeding).

Department: Geography

- Deepali Bhide
 - “ The Changing Status of Women in a globalising city: A Case of Girangaon-Mumbai” , was presented at the 11th Asian Urbanization Conference organized by the Department of Geography, Osmania University Hyderabad, between 10th December, 2011 and 13th December, 2011.
 - Completed a minor research project titled Socio-spatial study of women

Department: Psychology

- Dr. Neeta Tatke
 - “A comparative analysis of Physical Fitness and Mental Health in Competitive Sportspersons in Mallakhamb, Judo, Kho-Kho and Athletics and its application in Workplace”. Avishkar Research Journal, Vol. XIII, Issue I. 71-79 ISSN 0974-1119, (Peer Reviewed), on EBSCO database.
 - “Depression in elderly as a function of living in old age homes v/s living in families in Mumbai”. Bombay Psychologist, Vol. XXVII, No. 1x2. (Peer Reviewed)
 - “Enhancement of Optimism as a Result of Participation in Competitive Sport Mallakhamb”. Journal of Psychosocial Research. Vol. 9, No. 1, 71-80. International, Peer reviewed, Indexed in the Psych Info database of American Psychological Association, Proquest (UK), EBSCO Publishing (USA), also e Journal
 - “Enhancement of Emotional Intelligence as a function of Participation in Competitive Sport Mallakhamb”. Journal of Indian Psychology. Vol. 28, No. 1 & 2, 129-141, 2014. National, Peer Reviewed.
 - “Scope and Use of E-Technology in College Education” published in Proceedings of UGC sponsored National seminar on Quality Enhancement Measures in Higher Educational Institutions, 156-159. National, (Peer Reviewed) from the unorganised sector A case of Mumbai city. The research grant of Rupees Twenty Thousand was received from the University of Mumbai for the academic year 2011-2012. Project No. 153-Geography

FACULTY OF SCIENCE**Department: Chemistry**

- Dr. Rajan Rele
 - “Application of high performance liquid chromatographic technique for olopadine hydrochloride and its impurity in ophthalmic solution” International Journal of chemical Sciences, 9(2) , 601-614,2011 (ISSN: 0972-768X) (International, Peer reviewed, Impact factor N.A, Scopus)
 - “A simple extractive spectrophotometric determination of loratadine, desloratadine and rupatadine from pharmaceutical formulations”, International journal of pharma and biosciences, 3(2) 89-95, 2012. (ISSN

no. 0975-6299), (International, Peer reviewed, Impact factor 0.3, Scopus)

- “Simple spectrophotometric methods for determination of Ambroxal hydrochloride” from pharmaceutical formulation. International journal of pharm Tech, Research,vo.4, no. 3, 994-998, 2012,CODEN(USA) : IJPRF, (ISSN:0974-4304) (International, Peer reviewed, Impact factor 0.8, Research gate)
- “Determination of residual solvents in citalopram hydrobromide by gas chromatography”, American journal of pharm tech research, 2(4), 618-625, 2012, ISSN: 2249-3387. (International, Peer reviewed, Impact factor 0.9832, Scopus)
- “Simultaneous determination of aceclofenac and thiocolchiside in Formulation by reverse phase high performance liquid chromatography”, American journal of pharm tech research, 2(4), 726-732.2012, ISSN 2249-3387. (International, Peer reviewed, Impact factor 0.9832, Scopus)
- “A validated non-aqueous potentiometric titration method for the quantitative determination of lafutidine from pharmaceutical preparation”, Asian J. research chem. 5(6), 722-724, 2012, (ISSN: 0974-4169).
(International, Peer reviewed, Impact factor N.A., Google scholar)
- “A validated non-aqueous potentiometric titration method for the quantitative determination of fexofenadine from pharmaceutical preparation”, Journal of chemical and pharmaceutical research, 5(4), 286-289, 2013.(ISSN: 0975-7384, CODEN (USA) :JCPRC5) (International, Peer reviewed, Impact factor 0..32, Scopus)
- “Simple spectrophotometric determination of rupatadine as rupatadine fumarate from pharmaceutical formulation”, Der pharma chemica, 4(6), 2278-2282, 2012. ISSN -0975-413X, CODEN(USA): PCHHAX (International, Peer reviewed, Impact factor 0.3, Scopus)
- “UV spectrophotometric method for estimation of oxolamine citrate from bulk drug and pharmaceutical formulation”. , Der pharma chemica, 4(6), 2389-2392, 2012. ISSN -0975-413X, CODEN(USA): PCHHAX (International, Peer reviewed, Impact factor 0.3, Scopus)
- “A validated non-aqueous potentiometric titration method for the quantitative determination of oxolamine citrate from pharmaceutical preparation’, American journal of Pharm-Tech Research. 3(1), 445-449, 2013. (ISSN 2249-3387). (International, Peer reviewed, Impact factor N.A, Scopus)
- “Simultaneous Determination of Amoxicillin Trihydrate and Bromhexine Hydrochloride in Pharmaceutical Dosage by Reverse Phase High Performance Liquid Chromatography” Der pharma chemica, 5(1), 273-278, 2013. ISSN -0975-413X, CODEN(USA): PCHHAX For year 2013-2014 (International, Peer reviewed, Impact factor 0.3, Scopus)

Department: Physics

- Mr. Dilip Maske
 - “Characterization of InSbBi Bulk Crystal Grown by Vertical Directional Solidification Technique” was published in the Journal RESEARCH DIMENSIONS (ISSN 09768564), OCTOBER 2011. Vol.II; Issue II. (National, peer review-NA, Impact Factor-NA)
 - “Study of Dilute Nitrogen Doping in a Growth of Insb Bulk Crystal” was published in the Journal RESEARCH DIMENSIONS (ISSN 0976-8564), October 2011. Vol. II; Issue II. (National, peer review-NA, Impact Factor-NA)
 - “Characterization of InSbBi Bulk Crystals Grown at Various Growth-rates by Vertical Directional Solidification (VDS)” was published Scholars Research Library Archives of Physics Research, 2012, 3(1): 15-20 ISSN : 0976-0970 CODEN (USA): APRRC7. (International, Peer reviewed, impact factor-NA)

FACULTY OF COMMERCE**Department: Commerce**

- Mr. Ravindra Netawate (Only Conferences)
 - 11th International Conference on Global Issues & Challenges, Advertising challenges to society and culture, Research development Association ,Jaipur, ISBN no 978-81-920965-0-6 (International, Conference Proceedings)
 - Conflicts in industrial Organization organized by Tibrewala college proceedings of interdisciplinary national conference on Management ,Leadership and governance ISBN no 978-93-83105-96-0 (National, Conference proceedings)
 - National Conference on Emerging Trends in Banking, Commerce & Insurance, Analysis of performance appraisal special reference to senior college teacher organized by Dnyansadhana college ,ISBN No 81-89217-04-6 (National, Conference proceedings)
 - National Conference on CRM in Global Era, CRM in insurance sector- Prospects and challenges organized by Pragati college ISBN No 978-93-5142-452-9 (National, Conference proceedings)

Academic Year: 2012-13

FACULTY OF ARTS

Department: Economics

- Dr. Prakash Salvi
 - “Determination of Interest Rate arbitrage Across Markets in India” was published in the International peer reviewed journal scholarly research journal for interdisciplinary studies, September 2012 volume 1 issue 2 ISSN 2278-8308 (International, Peer reviewed, e-Journal)
 - “Challenges of the BPO industry in India” was published in the National journal xplore Xaviers research journal volume 3 issue 1 Dec 2012 ISSN 2249-1878.(National, Peer reviewed, Impact Factor-NA)

Department: English

- Hanumant Lokhande
 - “A Study of Class-Consciousness in Aravind Adigas The White Tiger”, was published in proceedings of the International Conference on Minority Discourse, New Voices, Aurangabad. pg.298-300, ISBN-978-93-82504-01-6 (March 13).(Conference Proceeding)
 - “The Elements of Protest and Image of New India in Aravind Adigas The White Tiger”, was published in the proceedings of the national conference in The explorer Issue I, Vol.I, Vidhya, Latur, pg.78-79, ISSN: 2319-2860. (January 2013) (Conference Proceeding, National, Peer reviewed)

Department: Political Science

- Prof. Avinash Kolhe
 - ‘The Contribution of Y B Chavan in the making of Samyukta Maharashtra’ organized by the Marathwada Sahitya Parishad, Aurangabad on 25th December 2012.
 - ‘Remedial Justice’ organized by the department of Education, University of Mumbai on 15th March 2013.
 - ‘Savarkar and nationalism in modern era’ organized by Savarkar Vichar Darshan, Nashik on 17th March 2013. The function was held at Nashik.

Department: Psychology

- Dr. Nandini Diwan
 - “Importance of Training Learners in Effective Study Skills for Quality Enhancement in Higher Education” was published in Proceedings of the UGC sponsored national Seminar on Quality Enhancement Measures in Higher Educational Institutions; Published by R. A. Podar College of Commerce and Economics, pages 152-155, ISBN 978-93-82062-56-1. (September 2012) national, Proceedings.

FACULTY OF SCIENCE:

Department: Botany

- Dr. Vikas Golatkar
 - “Evaluation of Arbuscular Mycorrhizal interactions with *Pisum sativum* L.”, in oral presentation (published in proceedings), in the National Seminar on Fungi and Human Welfare, organized by Ramnarain Ruia College, Mumbai, in association with Mycological Society of India (Mumbai Unit), on 8th and 9th February 2013. ISBN: 978-81920431-5-9. (National, Conference proceedings)
- Dr. Sudha Sawant
 - Effect of bionutrients and chemical nutrients on *Hibiscus esculentus* (L. Wilzeck), in poster presentation, at the National Seminar on Sustainable Crop Productivity through Physiological Intervention, organised by Ramnarain Ruia College, Mumbai, in the year 2012. (National, Conference proceedings)
 - Effect of some bacteria and fungi in commercial fertilizers, in poster presentation at the National Seminar on Fungi and Human welfare, organised by Ramnarain Ruia College, Mumbai, in association with Mycological Society of India, (Mumbai Unit), on 8th and 9th February. ISBN; 978-81-920431-5-9 (National Conference Proceedings)
- Dr. Mangala Hebale
 - Mass multiplication of *Trichoderma* spp. on Agriculture residue, and its use in Composting by Urmila Verma, and Dr. (Mrs.) M. S. Heble, in National Seminar on Fungi and Human Welfare, on 8th and 9th Feb. 2013. ISBN: 978-81-920431-5-9. Organised by R. Ruia College, Mumbai, in association with Mycological Society of India (Mumbai Unit).(National, Conference proceedings)
 - Biological Control of Plant Parasitic Nematodes by Fungi, by Aadity Saitawadekar, Dr. (Mrs.) M. S. Heble, and Umesh B. Kakde, in National Conference on Fungi in Agriculture, on 28th and 29th January 2014. ISBN: 978-81-922163-4-8. Organised by Ratnam College of Arts, Science and Commerce, Mumbai, and Mycological Society of India (Mumbai Unit).(National, Conference proceedings)
- Ms. Sakshi Kashyap
 - ‘Anti-fungal activity of Methanol and n-Butanol extracts of *Trichoderma* in growth inhibition of *Fusarium* and *Curvularia* species” in the poster presentation, on”Fungi and Human Welfare”, organised by Ramnarain Ruia College, Mumbai, in association with Mycological Society of India, (Mumbai Unit), on 8th and 9th February 2013. ISBN: 978-81-920431-5-9.(National, abstract published in proceedings)

Department: Chemistry

○ Dr. Rajan Rele

- “A validated non-aqueous potentiometric titration method for the quantitative determination of lafutadine from pharmaceutical preparation”, Asian J. research chem., 5(6), 722-724, 2012, (ISSN : 0974-4169).
- “A validated non-aqueous potentiometric titration method for the quantitative determination of fexofenadine from pharmaceutical preparation”, Journal of chemical and pharmaceutical research, 5(4), 286-289, 2013.(ISSN: 0975-7384, CODEN (USA) :JCPRC5)
- “ Simple spectrophotometric determination of rupatadine as rupatadine fumarate from pharmaceutical formulation.”, Der pharma chemica, 4(6), 2278-2282, 2012. ISSN -0975-413X, CODEN(USA): PCHHAX
- “ UV spectrophotometric method for estimation of oxolamine citrate from bulk drug and pharmaceutical formulation.” , Der pharma chemica, , 4(6), 2389- 2392 , 2012. ISSN -0975-413X, CODEN(USA): PCHHAX
- “A validated non-aqueous potentiometric titration method for the quantitative determination of oxolamine citrate from pharmaceutical preparation”, American journal of Pharm- Tech Research . 3(1), 445-449, 2013.(ISSN 2249-3387).
- “Simultaneous Determination of Amoxicillin Trihydrate and Bromhexine Hy-drochloride in Pharmaceutical Dosage by Reverse Phase High Performance Liquid Chromatography” Der pharma chemica, , 5(1), 273-278, 2013. ISSN -0975-413X, CODEN(USA): PCHHAX For year 2013-2014
- “ Reversed phase high pressure liquid chromatographic technique for validation of rupatadine fumarate from active pharmaceutical Ingredient’ ,American Journal of Pharm Tech Research, 3(2) 252-261, 2013. (ISSN: 2249-3387).
- “Ultra-violet spectrophotometric method for validation of carbocisteine from bulk drug and pharmaceutical formulation”, International Journal of pharma and bioscience, 4(2), 847-851, 2013. (ISSN: 0975-6299).
- “Spectrophotometric estimation of carbocisteine in bulk and pharmaceutical dosage form by first order derivative and area under curve methods.” Asian Journal of research chem., 6(3) 236-240, 2013. (ISSN: 0974-4169).
- “Spectrophotometric estimation of oxolamine citrate in bulk and pharmaceutical dosage form by first order derivative and area under curve methods.”,Journal of chemical and pharmaceutical research, 5(5) 12-17, 2013 . (ISSN: 0975-7384) CODEN(USA):JCPRC5
- “Simultaneous Spectrophotometric Estimation of Ofloxacin and Ornidazole by First Order Derivative Spectroscopy Method in Combined Dosage Form”, Der chemicasinica, 4(4), 43-48. 2013 (ISSN: 0976-8505, CODEN (USA) CSHIA5.
- “Simultaneous Spectrophotometric Estimation of Ofloxacin and Ornidazole by Area under Curve Method in Combined Dosage Form”,

Department: Mathematics

- Dr. Abhaya Chitre
 - “On edge-3-equitability of Kn-union of gears pp 129-150 was published in the Journal of Combinatorial Mathematics and Combinatorial Computing”. Volume 83, November, 2012 (ISSN: 0835-3026) (co-author Dr. Nirmala Limaye) (international and peer reviewed).

Department: Physics

- Mr. Dilip Maske
 - “ Growth and X ray Characteristics of Dilute Nitride of Indium Antimonide” was published in the Scholars Research Library Archives of Physics Research, 2013, 4(6):33-36 ISSN: 0976-0970 CODEN (USA): APRRC7 (International, Peer reviewed, impact factor-NA)
 - “Optical Characteristics of Dilute Nitride of InSb Bulk Crystal” was published in the International Journal of Scientific and Research Publications, Volume 4, Issue 4, April 2014-ISSN 2250-3153. (International, Peer reviewed, impact factor-NA)
 - “Study of Optical Properties and Microstructures of Selenium (Se) Doped Gallium Antimony (GaSb) Bulk Single Crystals Using VDS Technique” was published in the Proceedings of ICAAMS-2014. ISBN 978-81-928717-1-4. (International, Peer reviewed, impact factor-NA)
 - “Effect of temperature gradient on detachment of the crystals grown by vertical directional solidification” was published in the Conference Proceedings of AIP. Citation: AIP Conf. Proc. 1512, 876(2013); doi: 10.1063/1.47913128 @ 2013 American Institute of Physics 978 -0 -7354 -1133 -3/\$30.00. (International, Peer reviewed, Conference Proceedings)
 - “Effect of annealing on electrical characteristics of dilute nitride of indium antimonide” was published in the Conference Proceedings of AIP. Citation: AIP Conf. Proc. 1536, 333 -334(2013); doi: 10.1063/1.4810236/1.4810236@2013 American Institute of Physics 978 -0 -7354 -1133 -3/\$30.00. (International, Peer reviewed, Conference Proceedings)
 - “Growth and Characterization of selenium (Se) doped gallium antimony (GaSb) bulk single crystals using VDS technique was published in the Conference Proceedings of AIP Citation: AIP Conf. Proc.1536,877(2013); doi: 10.1063/1.4810508@ American Institute of Physics 978 -0 -7354 -1133 -3/\$30.00. Conference date: 1-2 February 2013. (International, Peer reviewed, Conference Proceedings)
- Mr. Sumedh Sawant
 - Power Loss From Hot Tungsten Filament, Physics Education, vol.27, Issue 2, Art. No. 3, April June 2012, , (National, ISSN 0970-5953)

- Compound Pendulum , Physics Education, vol.28, Issue 3, Art. No. 5, July September 2012, Sumedh Sawant, (National, ISSN 0970-5953)
- Magnet Solenoid Interaction , Physics Education, vol. 28, Issue 4, Art. No. 5, October December 2012, (National, ISSN 0970-5953)

Department: Zoology

○ Dr. Gayathri N

- “Analgesic from octopus?” Journal of Pharmacy Research. 5 (7): 3748-3752, 2012. (ISSN: 0974-6943. Indexed, International Peer-reviewed. IF: 2.667). (International, Peer-reviewed, Print, Impact Factor: 2.667, Indexed in-EBSCO information services)
- Study of shelf life of home-made prawn pickle, in RSM Jigyaasa 2012. (National, Research Scholar Meet, Abstract in Conference Proceedings).
- Study of physico-chemical parameters of Bhavans Lake, in RSM Jigyaasa 2012. (National Research Scholar Meet, Abstract in Conference Proceedings).
- Immunomodulation by the salivary gland extracts of Western Indian coastal octopus, in the International Symposium CESP, Kerala, 2012. (Abstract in International Conference proceedings).

○ Dr. Minakshi Gurav

- “Comparative Analysis of Plankton Density in Static and Lotic Ecosystem with Respect to Temperature”, published in Bionano Frontier, 2012, 09, 120 (IF: 0.2324)

Academic Year: 2013-14

FACULTY OF ARTS:

Department: History

- Dr. Rekha Gore
 - “Trade Relation between Bharuch and Eastern and Western Countries”. At Revanshaw University Kolkatta, dated on 16th -18th November 2013. Presented paper Title ‘Potter: A Village Artisan In Ancient Maharashtra’ Revanshaw University, Kolkatta on 16th -18th November 2013. (National Conference proceeding)
 - “ Fair: Tradition and Changing Face in Maharashtra” at Karkhanis College, Ambernath, dated on 20th -21st September 2013,
 - “ JIU-Bai Wife of Nana Phadnis” at C.K.T College ,Panvel New Mumbai dated 18th-19th 2014 (ISBN-) (National Conference Proceedings)

Department: Philosophy

- Sandip Kadam
 - “Sant Dnyaneshwar”-a landmark in the Indian Film history” was presented in the Conference proceedings of the National conference on 100 years of Indian Cinema: Issues and Challenges in Retrospection sponsored by ICSSR organized by Ramniranjan Jhunjhunwala College Ghatkopar (w) , Mumbai. On 5th and 6th June 2013. The paper was published in the conference proceeding with the ISBN-13 No: 978-81-925489-2-0 (July 2013). (National, Conference Proceedings).

Department: Political Sciences

- Avinash Kolhe
 - “The integration of Princely states into Indian Union” in the Journal Empowerment of Politicians to be published by Dr D Y Patil International Academy, Pune.
 - Was the resource person and presented a research paper titled “Relevance of Swami Vivekanands Thoughts on Nation-Building”. The seminar was organized by Swami Vivekanand Samoroh Samitie, Chembur.

Department: Psychology

- Dr. Nandini Diwan
 - Duniya Muthit, Vivek Kunthit on the negative psychological effects of modern tools of technology published in the special silver jubilee issue of the Marathi magazine Miloon Saryajani, Pune; RNI No. MAHMAR/2000/2001

- An article titled Mulanno Ani Mulinno on the gender discrimination in schools published in the Diwali special issue of Shikshanvedh 2014-15; RNI No. MAHMAR/2010/37640

FACULTY OF SCIENCE:

Department: Botany

- Dr. Sudha Sawant
 - “Evaluation of biosafety of Spirulina cultured in industrial effluents as a fuel supplement using Swiss albino mice (*Mus musculus*) in Himalayan Journal of Biodiversity, 2013. (International, Peer reviewed, Impact Factor-NA)

Department: Chemistry

- Dr. Rajan Rele
 - “Reversed phase high pressure liquid chromatographic technique for validation of rupatadine fumarate from active pharmaceutical Ingredient”, American Journal of Pharm Tech Research, 3(2) 252-261, 2013. (ISSN: 2249-3387). (International, Peer reviewed, Impact factor 0.9835, Scopus)
 - “Ultra-violet spectrophotometric method for validation of carbocysteine from bulk drug and pharmaceutical formulation”, International Journal of pharma and bioscience, 4(2), 847-851, 2013. (ISSN: 0975-6299). (International, Peer reviewed, Impact factor 0.3, Scopus)
 - “Spectrophotometric estimation of carbocysteine in bulk and pharmaceutical dosage form by first order derivative and area under curve methods”. Asian Journal of research chem., 6(3) 236-240, 2013. (ISSN: 0974-4169). (International, Peer reviewed, Impact factor 0.N.A., Google scholar)
 - “Spectrophotometric estimation of oxolamine citrate in bulk and pharmaceutical dosage form by first order derivative and area under curve methods”, Journal of chemical and pharmaceutical research, 5(5) 12-17, 2013. (ISSN: 0975-7384) CODEN (USA):JCPRC5. (International, Peer reviewed, Impact factor 0.32, Scopus)
 - “Simultaneous Spectrophotometric Estimation of Ofloxacin and Ornidazole by First Order Derivative Spectroscopy Method in Combined Dosage Form”, Der chemica sinica, 4(4), 43-48. 2013 (ISSN: 0976-8505, CODEN (USA) CSHIA5. (International, Peer reviewed, Impact factor 0.3, Scopus)
 - “Simultaneous Spectrophotometric Estimation of Ofloxacin and Ornidazole by Area under Curve Method in Combined Dosage” Form, Research journal pharm.and Tech, 6(8), 894-898, 2013.ISSN: 0974-3618. (International, Peer reviewed, Impact factor N.A, Scopus)
 - “Reversed Phase Ultra Performance Liquid Chromatography Method for Determination of Olopatadine Hydrochloride from Active Pharmaceutical dosage form”. Der chemica sinica 5(1), 18-22, 2014. (ISSN: 0976-8505,

CODEN (USA) CSHIA5. (International, Peer reviewed, Impact factor 0.3, Scopus)

- “Advance simultaneous determination of paracetamol, thiocolchocside and Acelofenac in tablet by reverse phase high performance liquid chromatography”. Der chemica sinica 5(1), 34-39, 2014(ISSN : 0976-8505, CODEN (USA) CSHIA5 (International, Peer reviewed, Impact factor 0.3, Scopus)
- “Spectrophotometric Estimation of Azelnidipine in Bulk and Pharmaceutical Dosage Form by First Order Derivative and Area under Curve Methods”. American Journal of Pharm-Tech Research, 4(2), 126-135, 2014 ISSN: 2249-3387. 2014-2015 (International, Peer reviewed, Impact factor 0.9835, Scopus)
- Dr. Krishnakant Waghmode
 - “Conventional and greener approach for the synthesis of some pharmacologically active derivatives of thiazolidines substituted with indolo [2,3-b]quinoxalines”., Journal of Chemical and Pharmaceutical Research, 2014, 6(5):1101-1105 ISSN : 0975-7384 CODEN(USA) : JCPRC5 (International, Peer reviewed, Impact factor 0.32, Scopus)

- **Department: Physics**

- Vidya Patil
 - “Role of Electrical Properties of Exogenous Dopamine as Neurotransmitter” Bionano Frontier, vol. 6 (2) July December 2013 International, Peer reviewed Journal) ISSN 0974-0678, e-journal 2320-9593
- Dr. Mugdha Patki
 - “Role of Electrical Properties of Exogenous Dopamine as Neurotransmitter” Bionano Frontier, vol. 6 (2) July December 2013,(International, Peer reviewed Journal) ISSN 0974-0678, e-journal 2320-9593
- Dilip Maske
 - Study of defects in Nitrogen Doped Bulk InSb Crystal was published in the Proceedings of ICAAMS-2014. ISBN 978-81-928717-1-4. (International, Peer reviewed, Conference Proceedings)
 - Electrical and Thermoelectric Properties and of InSbBi Bulk Crystal Grown by Vertical Directional Solidification was published in the Proceedings of ICAAMS-2014. ISBN 97881-928717-1-4. (International, Peer reviewed, Conference Proceedings)
 - Detached Growth Mystery: A step Ahead to Uncover the Truth into Vertical Directional Solidification Technique Grown Crystals was published in the Proceedings of ICAAMS2014. ISBN 978-81-928717-1-4. (International, Peer reviewed, Conference Proceedings)

- Sumedh Sawant
 - Low-Cost Timer to Measure the Terminal Velocity of a Magnet Falling Through a Conducting Pipe The Physics Teacher, vol. 52, March 2014, (National, ISSN 0031-921X)

Department: Zoology

- Dr. Madhavi Indap
 - Genotoxicity studies of radish grown on industrial and domestic waste water using *Alium cepa* root tip assay – Pranav Joshi, Sachin Chaugule, Shashank More, Prachi Salunkhe and **Madhavi Indap**. Sciknow Publications Ltd. DOI:10.12966/ne.08.01.2014
- Dr. Meenakshi Sundaresan
 - “Behavioural and histological changes introduced by cadmium chloride on the alimentary tract of fresh water fish, *Tilapia mossambica* (Peters)”, International Research Journal-Review of Research, Vol. 3, Issue 7, April, pgs 1 8, 2014 (Indexed and Peer Reviewed (Indexed in Journal Seek, Index Copernicus, German Journal Database, Geneva Foundation for Medical Education and Research), ISSN 2249-894X, IF: 2.1002)
 - “Cadmium induced histological and histochemical changes in the spleen of fresh water fish, *Tilapia mossambica* (Peters)”, , Indian Streams Research Journal, Vol. 4, Issue 3, , pgs 1 6, April 2014 (Indexed and Peer Reviewed (Indexed in Journal Seek, Index Copernicus, German Journal Database, Geneva Foundation for Medical Education and Research), ISSN 2230-7850, IF: 2.1056)
- Dr. Gayathri N.
 - “Indoor air quality assessment by investigation of airborne fungi”. International Journal of Life Sciences. Special Issue A (1): 47-51, 2013. (ISSN: 2320-7817. (International, Peer reviewed, Impact Factor-NA, Indexed In-Google Scholar, Directory of Research Journal Indexing)
 - “Mitogenic effect of the salivary gland extracts of the octopus”, published in the International Journal of Pharmacy and Pharmaceutical Sciences. April- June-2013. 5(2): 394-397. ISSN: 0975-1491. International; Peer-reviewed; Indexed in Scopus, Google Scholar, Elsevier; Impact factor (SCImago, SJR) – 0.91
 - “Generation of Electricity from sugarcane bagasse”, published in the Proceedings of the UGC sponsored National Conference on Recent Advances in Environmental Sciences (NCRAES), Dhule, 2014.
 - “Hydro biological Analysis of Bhavan’s lake”, published in the proceedings of the UGC Sponsored National Conference title Recent Advances in Environmental Sciences, Dhule, 2014.

- “Generation of electricity and ethanol production from sugarcane bagasse”, published in the proceedings of the UGC sponsored 6th National Seminar on Future Prospects of Biosciences, Pune 2014.
- Dr. Meenakshi Gurav
 - “Factual Analysis of Metal Accumulation of Fish Muscles from Vashi Creek, Thane, Maharashtra” published in Bionano Frontier, 7, Special Issue-12, 2014 (IF: 4.8506)
 - “Survey of Rotifier to Evaluate Water quality of River Gadhi and its reservoir” published in Ecology, Environment and Conservation,, 19(2), 2013, 417(SJR: 0.175)
 - ‘Efficient use of Grassy Weeds to Increase soil Fertility’ published in International Journal of Environmental Sciences, 2(1), 2013, 46 (IF: 0.38)
 - “Factual Analysis of Correlation between Shannon Index and Nutrients of River Gadhi and its Reservoir, Maharashtra, India”, published in the Proceedings of the 6th International Congress of Environmental Research held between December 19-21, 2013.
 - “Bioaccumulation of some heavy metals in Indigenous fish found in Vashi Creek and an insight on Socioeconomic Status of Local Fishermen”, published in the Proceedings of the National Conference on Biodiversity: Status and Challenges in Conservation – “FAVEO”2013 held on November 29-30, 2013
 - “Preparation of Organic Compost Using Waste Tea Powder” published in the Proceedings of the National Conference on Biodiversity: Status and Challenges in Conservation – “FAVEO”2013 held on November 29-30, 2013.
 - “Effect of Urbanization on Water Quality of River Gadhi”, published in the Proceedings of the International Conference titled “Frontiers of Environment, Energy and Bioscience (ICFEEB) 2013”, held on November 25, 2013.
 - “Planktonic Diversities and Densities with Respect to its Relationships to the Nutrients in River Gadhi and Deharang Reservoir”, Abstract published in the Proceedings of the International Conference titled “Frontiers of Environment, Energy and Bioscience (ICFEEB) 2013”, held on November 25, 2013.

Department: Library

- Dr. Pradip Karnik
 - “ Kaivari Anna Moreshwar Kunte sampadit Shree Dnyaneshwarichya navi tisarya avrutichya nimittane”, was published in the journal Marathi Sanshodhan Patrika, 59:3 Apr-May-June 2013, Pg. 3-30, ISBN-0542-6422. (National).
 - “Marathi Sanshodhasn Patrikechi 60 varshe”, was published in the journal 'Marathi Sanshodhan Patrika', 61:2 Jan-Feb-March 2014, Pg. 5-14, ISBN-0542-6423. (National).

- “Dadoba Pandurang ani Pra. A.K.Priyolkar”, was published in the journal 'Marathi Sanshodhan Patrika', 61:3 Apr-May-June 2014, Pg. 9-15, ISBN-0542-6424.(National).
- “ M.V.Dhond : Ek shodh' was published in the journal 'Marathi Sanshodhan Patrika', 62:1 Oct-Nov-Dec 2014, Pg. 119-128, ISBN-0542-6421.(National).

Academic Year: 2014-15

FACULTY OF ARTS:

Department: Economics

- Eknath Lamhate
 - “Indian agriculture marketing and problems” was published in the International Journal of Multifaceted and Multilingual studies Vol.I Special Issue: February -2015 ISSN: 2350-0476. (National, Peer reviewed, Conference proceeding)

Department: English

- Hanumant Lokhande
 - “Panditi Gathechi Chikitsyak Prastvana”, was published in the journal Marathi Sanshodhan Pratika, Issue 4, Mumbai Marathi Granthalay, Mumbai , pg. 12-14, ISSN 0542 6421 (September 2014). (National)
 - “Repugnant Representation of the Repressed: Romen Basus Breach of Faith”, was published in the International Journal European Academic Journal, Vol.II, Issue 12, pg. 15634-15649, ISSN 2286-4822, (March 2015) (International, Peer reviewed, e-Journal, impact factor 3.1(UIF), DRSI Value: 5.9 (B+).

Department: Geography

- Dr. Deepali Bhide
 - “A house wife’s right to the Personal Space” was presented in the UGC Sponsored National Conference on Women Quest for Equality in India, organized by the Women Development Cell of K. G. Joshi and N. G. Bedekar College, Thane, 9th and 10th January, 2015. The paper was published in the Conference Volume. ISBN-978-81-922741-4-0.(National Conference volume)

Department: Philosophy

- Sandip Kadam
 - “Shahane Chaturya: Ek Tipan” was published in a state level Journal named Marathi Sanshodhan Patrika with ISSN No-0542-6421. (National).

Department: Political Science

- Avinash Kolhe

- “Indian Constitution-Challenges and Hurdles” in seminar organized by Savitribai Phule Pune University, the research paper was on the Fundamental Duties.
- Presented a research paper at the 32nd session of Maharashtra State Political Science and Public Administration Conference held at Raosaheb Gogate College, Banda. This research was titled “The Implications of NOTA which means None Of The Above on the electronic voting machine”
- Presented a research paper titled “18th SAARC Summit and Chinas Relations at the national conference organized by G.S. College, Khamgaon.” [ISBN: 978-81-922866-2-4]

FACULTY OF SCIENCE:**Department: Botany**

- Dr. Rajesh Jadhav

- “ Relative distribution of the dry matter and Nitrogen content of the byproducts of green crop fractionation” in Journal Bioinfolet 11 (2C) : 722-725,2014.(ISSN No.-0973-141) (National, Peer reviewed , e journal Impact factor 0.06,) (Indexed in-Indian Science Abstract, EBSCO Discovery)
- Effect of aquatic DPJ from Eichhornia crassipes L. on seed germination of Cockscomb Celosia argentea, in 37th All India Botanical Conference of Indian Botanical Society and National Symposium on Biodiversity and Climate Change, held at KETs V. G. Vaze College, Mulund (E), Mumbai-400081, from 7th to 9th November, 2014. (National, Conference proceedings).

- **Department: Chemistry**

- Dr. Rajan Rele

- “Simultaneous spectrophotometric estimation of amoxicillin and carbocisteine by first order derivative spectroscopy method in combined dosage form”. Asian J. Research chem. 7(4), 412-416, 2014. (ISSN: 0974-4169). (International, Peer reviewed, Impact factor N.A, Google scholar)
- “Spectrophotometric Estimation of Ambroxal hydrochloride in Bulk Drug and Pharmaceutical Dosage Form by Area under Curve Method”. Research Journal Pham. And Tech 7(5)533-536, 2014. (ISSN: 0974-3618) (International, Peer reviewed, Impact factor N.A, Scopus)
- “Ultra-Violet Spectrophotometric Method For Validation of Rupatadine Fumarate From Bulk Drug And Pharmaceutical

Formulation”, American Journal of Pharm-Tech Research, (ISSN: 2249-3387) (International, Peer reviewed, Impact factor 0.9835, Scopus)

- “UV Spectrophotometric Estimation of Rupatadine Fumarate by First Order Derivative and Area under Curve Methods in Bulk and Pharmaceutical Dosage Form”. Der pharmacia letter, 6(3), 265270, 2014, ISSN0975-5071.USA CODEN: DPLFB4. (International, Peer reviewed, Impact factor 0.3, Scopus)
- “Simultaneous UV-Spectrophotometric Estimation of Amoxicillin and Carbocisteine by Area under Curve Method in Combined Dosage Form., Der Pharmacia letter, 6(5), 1-7, 2014. (ISSN09755071.USA CODEN: DPLFB4.) (International, Peer reviewed, Impact factor 0.3, Scopus)
- “Simultaneous UV spectrophotometric determination of ambroxal hydrochloride and guaiphenesin by First order derivative method in combined dosage form”, Journal of chemical and pharmaceutical research , 6(7),1717-1722,2014 (ISSN: 0975-7384) CODEN (USA):JCPRC5 (International, Peer reviewed, Impact factor 0.32, Scopus)
- “Simultaneous UV spectrophotometric determination of ambroxal hydrochloride and guaiphenesin by area under curve method in combined dosage form”. Research Journal Pham. and Tech, 7(9)976-980, 2014(ISSN: 0974-3618). (International, Peer reviewed, Impact factor 0N.A, Scopus)
- “Simultaneous UV spectrophotometric determination of ambroxal hydrochloride and guaiphenesin by second order derivative method in combined dosage form”. Asian J. Research chem. 7(9), 777780, 2014 (ISSN: 0974-4169). (International, Peer reviewed, Impact factor N.A., Scopus)
- “Simultaneous Spectrophotometric Estimation of Ofloxacin and Ornidazole by second Order Derivative Spectroscopy Method in Combined Dosage”. Der pharma lettre 6(4) 486-492, 2014. (ISSN0975-5071.USA CODEN: DPLFB4.) (International, Peer reviewed, Impact factor 0.3, Scopus)
- “Spectrophotometric Estimation of Azelnidipine in Bulk and Pharmaceutical Dosage Form by second Order Derivative Method”. Journal of chemical and pharmaceutical research, 6(8), 198202, 2014 (ISSN: 0975-7384) CODEN (USA):JCPRC5. (International, Peer reviewed, Impact factor 0.32, Scopus)
- “Spectrophotometric estimation of oxolamine citrate in bulk and pharmaceutical dosage form by second order derivative method”. Research Journal Pham. and Tech., 7(10), 1150-1152, 2014 (ISSN: 0974-3618). (International, Peer reviewed, Impact factor N.A, Scopus)
- “Spectrophotometric estimation of carbocisteine in bulk and

pharmaceutical dosage form by second order derivative method". Der pharma lettre. 6(10), 118-122, 2014 (ISSN0975-5071.USA CO-DEN:DPLFB4.) (International, Peer reviewed, Impact factor 0.3, Scopus)

- "UV Spectrophotometric Estimation of Rupatadine Fumarate by second Order Derivative and Method in Bulk and Pharmaceutical Dosage Form". Asian J. Research chem. 7(10), 859-862,2014, ISSN : 0974-4169 (International, Peer reviewed, Impact factor N.A, google schlor)
- "Simultaneous spectrophotometric estimation of amoxicillin and carbocisteine by second order derivative spectroscopy method in combined dosage form". International Journal of chemical Sciences, 12(4), 1587-1595, 2014 (ISSN: 0922-768X). (International, Peer reviewed, Impact factor N.A, Scopus)
- "UV Spectrophotometric Estimation of ambroxal hydrochloride by second Order derivative and Method in Bulk and Pharmaceutical Dosage Form". Journal of chemical and pharmaceutical research, 6(10), 663667, 2014. (ISSN: 0975-7384) CODEN (USA):JCPRC5. (International, Peer reviewed, Impact factor 0.32, Scopus)
- "Simultaneous spectrophotometric estimation of amoxicillin trihydrate and ambroxal hydrochloride by second order derivative spectroscopy method in combined dosage form", international journal of chemical sciences, 13(1), 443-451,2015, (ISSN:0972-768X),(ISSN:0972-768X) (International, Peer reviewed, Impact factorN.A., Scopus)
- "UV Spectrophotometric Estimation of ambroxal hydrochloride by second Order Derivative and Method in Bulk and Pharmaceutical Dosage Form". Journal of chemical and pharmaceutical research, 6(10), 663-667, 2014. (ISSN: 0975-7384) CODEN (USA):JCPRC5. (International, Peer reviewed, Impact factor 0.32, Scopus)
- "Validation Method of Oxolamine Citrate From Bulk Drug And Pharmaceutical Formulation by High Performance Liquid Chromatography" Method International journal of pharmtech, 7(4),549-553.CODEN(USA) : IJPRF, (ISSN:0974-4304) (International, Peer reviewed, Impact factor 0.3, Scopus)
- "Spectrophotometric Estimation of carvedilol hydrochloride in Bulk and Pharmaceutical Dosage Form by First Order Derivative and Area under Curve Methods". Der pharmacia sinica 5(6), 29-35,2014, (ISSN:0976-8688 CODEN: (USA) :PSHIBD) (International, Peer reviewed, Impact factor 0.3, Scopus)
- "Spectrophotometric Estimation of carvedilol in Bulk and Pharmaceutical Dosage Form by second Order Derivative Method". Research Journal Pharm and Tech. 7(12), 1459-1462,2014,(ISSN: 09743618). (International, Peer reviewed, Impact factor N.A, Scopus)
- "Spectrophotometric Estimation of clopidogrel in Bulk and Pharmaceutical Dosage Form by second Order Derivative Method",

Der pharmacia letter, 6(6),117-121,2014, (ISSN0975-5071.USA CODEN:DPLFB4) (International, Peer reviewed, Impact factor 0.3, Scopus)

- “Advance Reversed Phase high Performance Liquid Chromatography Method for Determination of Clopidogrel bisulphate from Active Pharmaceutical dosage form” , Journal of chemical and pharmaceutical research,6(12),672-676,2014.((ISSN: 0975-7384) CODEN (USA):JCPRC5) (International, Peer reviewed, Impact factor 0.32, Scopus)
- “Determination of Clopidogrel Bisulphate in Pharmaceutical Dosage Form by High Performance Liquid Chromatography Method”, Der pharmacia sinica,6(1),26-30,2015,(ISSN:0976-8688, CODEN:(USA):PSHIBD)

○ Dr. Jyoti Patil

- “Synthesis and characterization of metal complexes of Schiff bases ligand derived from isonitrosoacetophenone and hydrazine”, Asian Journal of chemistry, 26, 163-166, 2014.(ISSN-0970-7077) (International, Peer reviewed, Impact factor: N.A. Scopus)
- Synthesis and studies of ternary metal complexes of isonitrosoacetophenone and [HPgaldox] and anthranilic Acid[HAA], CONCHEM 2014, Societal Impact of Chemistry Vision 2020, 12-13th Sept.2014. (Conference Proceedings)

○ Dr. Kshitij Chavan

- Atom Economy of the oxidation of 1-octanol with 30% H₂O₂ under aqueous organic solvent free conditions: A quantitative approach was published in the proceedings of UGC-National Green Chemistry Workshop, held at Elphinstone College. (poster presentation)
- An Atom Economy approach for the Friedel Crafts benzylation of benzene using ortho and para substituted benzyl chlorides using Clayz was published in the proceedings of , 12,13th February 2015 (poster presentation)
- “Nitration of N-Acetylamino anisoles using Dilute Nitric Acid a Quantitative Study”, Abstract published in Proceedings of UGC-International Conference, at CHM College, on 12th January, 2015. (ORAL PRESENTATION)
- “Investigation of the oxidation reaction of 1-octanol with 30% H₂O₂”, paper published in the Proceedings of the UGC-National Conference, Ratnam College, Bhandup on 16th January 2015. (ORAL PRESENTATION)

○ Dr. Vaishali Rajurkar

- The research paper titled Synthesis, Spectral and Biological Studies of New Mn (II) and Fe(II) Complexes of 2,3-Butanedione 3-monoxime. was published in the International Journal Oriental Journal of

Chemistry 2014, Vol. 30 No.-4, Pages-1847-1854. ISSN: 0970-020 X.
(International, Peer reviewed, Impact factor 0.5, Scopus)

- Synthesis, characterization and Biological Studies of New Mn(II) and Fe(II) Complexes of diacetylmonoxime in U.G.C. (W.R.O. Pune) & C.S.I.R., New Delhi Sponsored two day National Conference CONCHEM on Societal Impact of Chemistry Vision-2020 (1213th Sept. 2014), D. G. Ruparel College Of Arts, Science and Commerce, Mumbai.

Department of Information Technology

- Pooja Tambe

- “Recycling of E-waste” bearing an ISBN no. 978-93-5142-876-3 in Aug-2014 at S.M. Shetty college in national conference on 23rd August-2014.
- “Dynamic Library” at Modern College, Pune in International conference on 26th Feb 2015.

Department: Zoology

- Dr. Madhavi Indap

- Methanol extract of *Euchelus asper* prevents bone resorption in ovariectomised mice model – Babita Balkrishnan, Shubhada Chiplunkar and Madhavi Indap. Journal of Osteoporosis, Journal of Osteoporosis, Volume 2014 (2014), Article ID 348189, 9 pages <http://dx.doi.org/10.1155/2014/348189>.
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- ‘Effect of Cadmium Chloride on the gill of *Tilapia Mossambica* (Peters)’ abstract published in the Proceedings of International Conference ‘Emerging Trends and Challenges in Science and Technology’ (ETCST 2014): 3-5 November 2014 organized by Bionano Frontier and International Society of Science and Technology in association with Sinsil International Ltd. held at Bangkok, Thailand.

○ Dr. Gayathri N

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- Dr. Minakshi Gurav
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FACULTY OF COMMERCE:

- Ravindra Netawate
 - Minor Research on ‘Customer Relationship in Mall Shopping’ in Navi Mumbai submitted on 01 September 2014.

FACULTY OF ARTS:

Department: History

○ Dr. Rekha Gore

- “Madpeshwar Caves” in dark epigraphy as an epigraphic source in Mumbai at Dharwad govt. of Karnatka Archaeological survey of India, Dharwad dated 9th January 2016 to 11th January 2016.
- “Interesting place Karanja on western cost of India, 35th Annual Conference of Place Names society of India.Govt of Karnatka, dated 9th January 2016 to 11th January 2016.
- Thoughts of Mahatma Gandhi: Village to Global Village at K.V. Pendarkar College National Conference on relevance of Mahatma Gandhi’s Thoughts in 21st Century. dated February 2016.
- Parallel Govt. Of Satara Supported To Indian National Congress at Pragati College of Arts & Commerce & U.G.C. Sponsored 5th February 2016 on role of Indian national congress In shaping the national movement towards freedom.
- Development of Tidal Energy in India at St. Xavier College autonomous “department of ancient Indian Culture, History and archeology in collaboration with Heras Institute of Indian History Culture and Museum Society of Bombay held on 1st August state level seminar on maritime Heritage of India 9th Mani Kamerkar Memorial Trust of Asiatic Society of Mumbai.
- Importance of Ghodbander Road In Salsette Island Of Western Sea Coast Shanakar Narayan College, Bhayander held 24th National Conference of Akhil Maharashtra Itihas Parishad 27-28th November 2015 and Selected on Advisory committee.
- Importance of Temple, River Ghats, In Peshwa Rule at Konkan, @ konkan history conference (National Level 17th January 2016) held at Sharda Education Society Thane.
- Analytical Study Human Rights: with special reference to basic need of water UGC Sponsored inter disciplinary national Seminar on human rights issues and social justice in India on 15th -16th March 2016 at L.J.N.J. Mahila Mahavidyalaya, Vileparle East.
- India Bangladesh Global relation in 21st Century international level conference on global image of India: Past, present & future organized by K.M. Agarwal College of Kalyan West on 22nd Feb 2016. ISSN No- 2231-5063 (Impact factory 3.4)

Department: English

- Hanumant Lokhande
 - “Mulk Raj Anand's Untouchable: A Perspective from Below” published in Chronicle of Humanities and Cultural Studies , December 2015 Vol No.1, No. 4 68-70, ISBN- 2454-5503 (International Conference Proceedings)
 - Problematic Representation of the Lower Caste Women in Anand's Untouchable in Research Chronicler, December 2015 Vol.III Issue.IX 98-104, Peer Reviewed, ISBN No – 2347-5021 (International Conference Proceedings)
 - New Materialism: A Re-reading of Robert Frost's "The Road Not Taken" – Accepted For Publication

FACULTY OF SCIENCE:**Department: Botany**

- Dr. Mangala Hebale
 - 'Plant Biodiversity of Wetlands of Khijadiya Bird Sanctuary' in the National Conference titled 'Wetlands – Present Status, Ecology and Conservation', pp. 141-145 at M. D. College of Arts, Science and Commerce, Parel, Mumbai, in collaboration with SACON (Salim Ali Centre for Ornithology and Natural History and ATBS (Association of Teachers in Biological Sciences).
 - 'Influence of arbuscular mycorrhizal (AM) fungi on the growth of Safflower (*Carthamus tinctorius*) plants' in the national Conference titled 'Fungal Diversity and their Applications'. At Guru Nanak College of Arts, Science, and Commerce, G. T. B. Nagar, Mumbai, Department of Botany, in association with Mycological Society of India (Mumbai Unit).
- Sakshi Kashyap
 - 'Effect of idol immersion on water quality of Bhandupeshwartalao, Bhandup' in Proceedings titled, 'Ecosystem Service of Wetlands: Ardrabhumi – 2016', pp. 177-178. ISBN: 978-81-923 628-3-0 at International Conference on 'Ecosystem Service of Wetlands: Ardrabhumi – 2016'held at B. N. Bandodkar College of Sciences, Thane, Department of Zoology and Environmental Science in Collaboraton with Mangrove Cell, Mumbai, Salim Ali Center for Ornithology and Natural History (SACON), Mangrove Society of India, Goa, HOPE Nature Trust, Thane.
 - Poster titled 'Preliminary investigation of organic acids production from selected filamentous fungi' was presented, abstract of whose was published in Proceedings of the National Conference titled 'Emerging Trends in Fungal Biology and Plant Protection-2016.' pp. 98

Department: Chemistry

○ Dr. Rajan Rele

- “Simultaneous determination of bromhexine hydrochloride and salbutamol sulphate by second order derivative method from combined dosage form” Research Journal Pharm. and Tech. 8(6), 105, 2015, National Peer Reviewed, ISSN-0974-3618
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- “UV-Spectrophotometric Estimation of Thiocolchicoside by derivative Method in pharmaceutical Dosage Form”, Der pharmacia letter 7(7), 221-226, 2015, International Peer-Reviewed Journal, ISSN 0975-5071. USA CODEN: DPLFB4, Impact Factor- 5.053
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- “UV Spectrophotometric Estimation of Ofloxacin by Area Under Curve Methods in Bulk and Pharmaceutical Dosage Form”, Der pharmacia sinica 6(9), 39-43,2015, International Peer Reviewed Journal, ISSN:0976-8688 CODEN: (USA):PSHIBD
- “UV Spectrophotometric Estimation of Ornidazole by First Order Derivative and Area Under Curve Methods in Bulk and Pharmaceutical Dosage Form” Journal of chemical and pharmaceutical research, 7(10), 580-585,2015, International Peer Reviewed Journal, JCPRC5 CODEN (USA): (ISSN: 0975-7384), Impact Factor 0.92
- “Determination of Ofloxacin in Pharmaceutical Dosage Form by High Performance Liquid Chromatography Method”, Der pharmacia Lettre 7(10), 188-192,2015, International Peer-Reviewed Journal, ISSN0975-5071.USA CODEN: DPLFB4, Impact Factor 5.053
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- “Determination of diclofenac and thiocolchicoside in Pharmaceutical Dosage Form by High Performance Liquid Chromatography Method” Der pharmacia letter 8(1), 80-84, 2016, International Peer-Reviewed Journal ISSN 0975-5071.USA CODEN DPLFB4, Impact Factor 5.053
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 - “Reverse Phase High Performance Liquid Chromatography method for Simultaneous Determination of Ofloxacin and Ornidazole in Pharmaceutical Dosage” National Conference on ‘chemical sciences: emerging scenario and challenges’ at Presented in conference in Amravati
 - “Simultaneous Spectrophotometric Estimation of Ambroxal hydrochloride and Guaiphenesin by Third Order derivative Method in Combined Dosage Form” Der pharmacia letter 8 (2):309-314, 2016, International Peer-Reviewed journal, ISSN0975-5071.USA CODEN DPLFB4, Impact factor 5.053
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- Dr. Krishnakant Waghmode
 - “Esterification of stearic acid for biodiesel production in the presence of homogeneous milder organic acid as a catalyst” , Journal of Chemical and pharmaceutical research, International Peer-Reviewed Journal, (ISSN: 0975-7384) CODEN USA:JCPRC5, Impact Factor: 0.92
 - : Dr. Kshitij Chavan
 - “Synthesis of 4,4’-dihydroxybenzophenone: A Quantitative Study”, abstract published in the Proceedings of the UGC-SAP: International Conference (ICSMC-2015), organized by Department of Chemistry, University of Mumbai on 26th November, 2015. (Poster Presentation)

Department: Information Technology

- Mandar Sudhakar Bhawe
 - “Civic Body Information Framework for Deploying M-Governance” Proceedings of the 10th INDIACom; INDIACom-2016; IEEE Conference ID: 37465 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th- 18th March, 2016 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA) (ISSN Number ISSN 0973-7529; ISBN 978-93-80544-20-5)
- Mrs. Swarupa Gogate
 - “Faculty Evaluation” in National Conference titled “Revolution and Transformation in Information Technology” at SIA College (Conference Proceedings)

- Pooja R. Tambe
 - “Role of IT in Library Management” in National Conference titled “Revolution and Transformation in Information Technology” at SIA College, (Conference Proceedings)
- Ameya Joshi
 - “Information Technology in Medical and Wellness Industry” in National Conference titled “Revolution and Transformation in Information Technology” at SIA college, (Conference Proceedings)

Department: Mathematics

- Dr. Abhaya Chitre
 - 'On edge 3 Kn union of helms' was published in the international journal 'Combinatorial Mathematics and Combinatorial Computing' in August 2015 issue, volume no. 95, pages no. 283-299. (International, peer reviewed journal ISSN No 0835-3026)

Department: Zoology

- Dr. Meenakshi Sundaresan
 - Effect of Cadmium chloride on the gill of Tilapia mossambica (peters), , Bionano Frontier, 2015, Indexed and peer reviewed (Indexed in- Indian Science Abstract, Medicinal and Aromatic Plant Abstract, Google search Engine, Genamics, EISRJC, International Citation Agency) Print ISSN: 0974-0678, online 2320-9593, IF: 4.856)
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 - ‘Socioeconomic Status of Adivasi and Katkari People living in the villages around river Gadhi and Deharang reservoir,’ in Journal of B.N. Bhandodkar College (Special Issue WSSW – July 2015), pgs 114 – 121, ISSN 2454-2776.
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 - ‘Effect of Cadmium on Aquatic Ecosystems’ in the proceedings of National Seminar on “Wetlands – Present Status, Ecology & Conservation” organized by M.D. College, Parel, Mumbai on August 12, 2015.
- Dr. Minakshi Gurav
 - “Seasonal Influence of Limnological Variables on Plankton Dynamics of a Small Shallow Reservoir from Panvel”, Proceedings of the International Conference titled “Ecosystem Services of Wetlands ‘Ardrahumi: 2016’” ISBN: 978-81-923628-3-0

- Dr. Gayathri N
 - “Biochemical analysis and study of self restoration capacity of Mira-Bhayandar Wetlands using modified Winogradsky’s column”, Conference Proceedings of the International Conference titled Ecosystem Services of Wetlands ‘Ardrabhumi: 2016’ 53-56, ISBN: 978-81-923628-3-0
 - “Effect of octopus salivary gland extracts on acetylcholinesterase activity” published in International Journal of Basic and Applied Biology 2015 5 (2): 327-329, International Peer-Reviewed Journal ISSN: 2349-5820 (Print); 2349-5839 (Online)

ABBREVIATIONS

ACTREC	<i>Advanced Centre from Treatment, Research and Education in Cancer</i>
ATC	<i>Annual Training Camp / Animal Tissue Culture</i>
BARC	<i>Bhabha Atomic Research Centre</i>
BMC	<i>Bombay Municipal Corporation</i>
BoS	<i>Board of Studies</i>
CAP	<i>Centralized Assessment Program</i>
CAS	<i>Career Advancement Scheme</i>
CAT	<i>Combined Annual Training</i>
CASSO	<i>Commerce Association</i>
CCTV	<i>Closed Circuit Television</i>
CGPA	<i>Cumulative Grade Performance Average</i>
CHEMARC	<i>Chemistry Association of Ruparel College</i>
DLLE	<i>Department of Lifelong Education</i>
DST	<i>Department of Science and Technology</i>
DT	<i>Denoted Tribes</i>
FDP	<i>Faculty Development Program</i>
FIP	<i>Faculty Improvement Program</i>
FIST	<i>Fund for Improvement of Science and Technology Infrastructure</i>
ICT	<i>Information and Communication Technologies</i>
ICSSR	<i>Indian Council of Social Science Research</i>
IIPS	<i>Indian Institute of Population Studies</i>
IITB	<i>Indian Institute of Technology Bombay</i>
IPTA	<i>Indian People's Theatre Association</i>
IQAC	<i>Internal Quality Assurance Cell</i>
ISBN	<i>International Standard Book Number</i>
ISC	<i>Indian Science Congress</i>
JAWS	<i>Job Access With Speech</i>
LAN	<i>Local Area Network</i>
LCD	<i>Liquid Crystal Display</i>
LMC	<i>Local Management Committee</i>
LMS	<i>Learning Management System</i>
MAVA	<i>Men Against Violence and Abuse</i>

MCQ	<i>Multiple Choice Questions</i>
MDACS	<i>Mumbai District AIDS control society</i>
MOU	<i>Memorandum of Understanding</i>
MPSC	<i>Maharashtra Public Service Commission</i>
MTNL	<i>Mahanagar Telephone Nigam Ltd (Mumbai).</i>
NMSEZ	<i>Navi Mumbai Special Economic Zone</i>
NSS	<i>National Service Scheme</i>
NT	<i>Nomadic Tribes</i>
NCC	<i>National Cadet Cops</i>
RUPELA	<i>Ruparel English Literary Association</i>
SC	<i>Scheduled Caste</i>
SBC	<i>Special Backward Castes</i>
ST	<i>Scheduled Tribes</i>
SPSS	<i>Statistical Package for Social Sciences</i>
SPJIMR	<i>SP Jain Institute of Management Research</i>
SUO	<i>Senior Under Officer</i>
UGC-HRDC	<i>University Grants Commission- Human Resource Development Centre</i>
UPS	<i>Universal Power Supply</i>
UPSC	<i>Union Public Service Commission</i>
VJ	<i>Vimukta Jaati</i>
WDC	<i>Women's Development Cell</i>
YRC	<i>Youth Red Cross</i>



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