



Vidya Prasarak Mandal's

B.N.BANDODKAR COLLEGE OF SCIENCE, Thane

NAAC Reaccredited 'A' Third Cycle




University of Mumbai- "Best College Award-2009-10"

Fist 'O' Level Grant

DBT Star College Scheme

Annual Quality Assurance Report (AQAR)

For the Year 2015-16

	Vidya Prasarak Mandal's	Tel. No. : 2533 65 07
B. N. BANDODKAR COLLEGE OF SCIENCE		
'Inandweep' Chendani, Thane - 400 601.		
NAAC Reaccredited A Grade		
Best College Award (University of Mumbai)		
DR. (MRS.) M. K. PEJAYER M. Sc., D.H.E., Ph. D. Principal Reader, Head Dept. of Zoology	Website : http://www.vpmthane.org Email : prinbnb@vpmthane.org bnb@vpmthane.org	Ref. No. BSC / 1435 Date : 03.09.2016
To,		
The Director,		
National Assessment and Accreditation Council,		
Bangalore.		
Subject: Submission of AQAR for the year 2015-16 by email.		
Sir,		
We are enclosing herewith AQAR for the year 2015-16 with mark ID PMHCOGN 10460		
Kindly acknowledge.		
Thanking you.		
Your's truly,		
	 Principal,	VPM's B. N. Bandodkar College of Science, Thane, Maharashtra.

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The Annual Quality Assurance Report (AQAR)**Part - A****1. Details of the Institution**

- 1.1 Name of the Institution VPM's B.N. BANDODKAR COLLEGE OF SCIENCE
- 1.2 Address Line 1 Jnandweepa, Near CIDCO bus stop
- Address Line 2 Chendani
- City/Town Thane
- State Maharashtra
- Pin Code 400601
- Institution e-mail address prinbnb@vpmthane.org
- Contact Nos. 022-25401176, 022-25337672 022-25336507
- Name of the Head of the Institution Dr. (Mrs) M.K. Pejaver
- Tel. No. with STD Code 022-25401188
- Mobile 9004690471
- Name of the IQAC Co-ordinator Dr.(Mrs) A.S.Goswami-Giri
- Mobile 09967899417
- IQAC e-mail address asgoswamigiri@vpmthane.org
- 1.3 NAAC Track ID MH CO GN 10460
- 1.4 NAAC Executive Committee EC/SC/10/A&A/5.3 dated 15^h November 2015
- No. & Date
- 1.5 Website address <http://www.vpmthane.org/BNB/>
- Web-link of the AQAR <http://vpmthane.org/bnb/AQAR.aspx>
- 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B++	82.5	2003	15 th Sept 2008
2	2 nd Cycle	A	3.04	2010	27 th March 2015
3	3 rd Cycle	A	3.21	2015	14 th November 2020

- 1.7 Date of Establishment of 14/01/2004

IQAC (DD/MM/YYYY)

1.8 AQAR for the year **2015-16**1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC. **N.A.****As latest Assessment and Accreditation by NAAC was held in Oct 2015**

1.10 Institutional Status:

University ☐ State ☐ Central ☐ Deemed ☐ Private ☐Affiliated College Yes ☒ No ☐Constituent College Yes ☐ No ☒Autonomous college of UGC Yes ☐ No ☒Regulatory Agency approved Institution Yes ☐ No ☒
(eg. AICTE, BCI, MCI, PCI, NCI)Type of Institution Co-education ☒ Men ☐ Women ☐Urban ☒ Rural ☐ Tribal ☐Financial Status Grant-in-aid ☒ UGC 2(f) ☒ UGC 12B ☒Grant-in-aid + Self Financing ☒ Totally Self-financing ☐

1.11 Type of Faculty/Programme

Arts ☐ Science ☒ Commerce ☐ Law ☐ PEI (Phys Edu) ☐TEI (Edu) ☐ Engineering ☐ Health Science ☐ Management ☐

Others (Specify)

1.12 Name of the Affiliating
University (for the Colleges)**University of Mumbai**

1.13 Special status conferred by Central/State Government- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

N. A.

UGC-CPE

YES

DST Star Scheme

Yes

UGC-CE

No

UGC-Special Assistance Programme

No

DST-FIST

"O" Level grant

UGC-Innovative PG programmes

No

UGC-COP Programmes

No

Any other (Specify)

1. RBNQA commendation Certificate- 2014
2. Best College University of Mumbai 2009- 2010.
3. Jagar Janivancha Second prize at District level from State Government of Maharashtra 2012-13.
4. Jagar Janivancha First prize at District level from State Government of Maharashtra 2013-14.

2. IQAC Composition and Activities

- 2.1 No. of Teachers 10+ 1 (Principal)
- 2.2 No. of Administrative/Technical staff 03
- 2.3 No. of students -
- 2.4 No. of Management representatives 02
- 2.5 No. of Alumni 02
- 2.6 No. of any other stakeholder and community representatives 01
- 2.7 No. of Employers/ Industrialists -
- 2.8 No. of other External Experts 01
- 2.9 Total No. of members 20
- 2.10 No. of IQAC meetings held Eight
- 2.11 No. of meetings with various stakeholders : Five
- 2.12 Has IQAC received any funding from UGC during the year? Yes
If yes, mention the amount 3 Lakhs.
- 2.13 Seminars and Conferences (only quality related)
- (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC
- Total Nos. International National State ☒
- Institution Level ☒
- (ii) Themes : **1. Exploring New Horizons on Teaching and Learning methodologies**
- 2. Data management**
- 2.14 Significant Activities and contributions made by IQAC:
1. Audits by University of Mumbai
- i. Academic Audit by University of Mumbai**

ii. NAAC Visit 5,6,7 October' 2015

2. Workshops and Seminars

- i. Organized a college level workshop on Exploring New Horizons of Teaching-Learning Methodologies” on July 16, 2015.
- ii. Workshop on Use of computers to maintain data for Laboratory assistants.

3. Strengthening Data collection

- i. Orientation of Departmental non teaching staff.
- ii. Collection of data to calculate student's satisfaction from T.Y. students and its analysis.
- iii. Orientation of Office Staff.

4. Initiation of various programmes

- i.** Strengthening of the Research activity.
- ii.** Initiating value added and skill development courses/workshops.
- iii.** Life skills sessions for T.Y. B.Sc. Students by the Counsellor.
- iv.** Starting Research Scholar programme for UG students.
- v.** Conducting various activities under “Jagar Janivancha” campaign started by Govt. Of Maharashtra.

5. Orientation for staff and students regarding examination rules and regulations.

6. Application to the University of Mumbai for sanction of NSS as optional subject for foundation course at UG .

2.15 **Plan of Action by IQAC/Outcome:** The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

1. Copy of Academic Calendar for year 2015-16 is given in Annexure -i
2. Action plan and Outcome given in Annexure ii

2.16 Whether the AQAR was placed in statutory body Yes

✓ Management Syndicate ✓ Student's council

Provide the details of the action taken.

Management approved the report and suggested

- 1) To perform energy audit and try to reduce consumption of electricity.
- 2) To conduct workshops on MOOC and use it in teaching.

Part – B

Criterion – I

1. Curricular Aspects

1. Details about Academic Programmes -2015-16

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	5	-	2	-
PG (5papers+6 Research)	11	-	6	-
UG	13	-	7	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	13
Others YCMOU	3	-	-	-
Total				

Interdisciplinary	
Innovative	Optional subject NCC introduced as a option for Foundation Course

1. (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

2 (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	13 UG and 6 PG
Trimester	--
Annual	--

1. Feedback from stakeholders* (On all aspects)

3 Alumni ☒ Parents ☐ Employers ☐ Students ☒

Mode of feedback : Online ☐ Manual ☒

An analysis of the feedback is given in the Annexure-iii

1. Whether there is any revision/update of regulation or syllabi, if yes, mention
4 their salient aspects – **No**.

1. Any new Department/Centre introduced during the year. If yes, give details.
5 **No**.

Criterion – II**2. Teaching, Learning and Evaluation****2.1 Total No. of permanent faculty**

	Total	Asst. Professors	Associate Professors	Professors	Others
Aided	35	16	19	In process.	-
Unaided	3	03	-	-	-

2.2 No. of permanent faculty with Ph.D.: 18**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
Aided	-	12	-	-	-	2	-	-	-	14
Unaided	46	-	-	-	-	-	-	-	46	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

Visiting faculty: 11 for PG courses 01 for UG.

Temporary faculty Aided courses: 31

Temporary faculty Un-Aided courses:15

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	33	22	15
Presented papers	18	08	-
Resource Persons	02	05	-

2.6 Innovative processes adopted by the institution in Teaching and Learning.

- Use of ICT
- Conducting seminars/group discussions/question-answer sessions for students
- Showing subject related movies.
- Uploading notes/ Question banks/Old question papers on Digital repository
- Lecture series by young scientists
- Use of Origami and Experimental Demo
- Use of natural surroundings in the campus for lectures and practical

2.7 Total No. of actual teaching days during this academic year: 194

- 2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)
- Photocopy of answer papers on request and revaluation of answer papers.
 - Moderation as per University rules.
 - Online test (By IT department)
- 2.9 No. of faculty members involved in curriculum restructuring/ revision/ syllabus development as member of Board of Study/Faculty/Curriculum Development workshop
- Our Principal is Dean of the science faculty, University of Mumbai and members of Academic council.
 - Three staff members are member of board of studies.
 - One staff member involved in syllabus development.
- 2.10 Average percentage of attendance of students 75%
- 2.11 Course/Programme wise distribution of pass percentage
University of Mumbai

Title of the Programme	Total no. of students appeared	Division						Total Pass %
		O	A	B	C	D	E	
B. Sc.	352	5.68	26.98	26.7	12.5	0.85	0	72.73
B. Sc. (I.T.)	108	1.85	32.4	25.93	7.4	2.77	0	70.37
M. Sc. Chem	10	0	0	40	10	0	0	50
M.Sc. Physics	16	6.25	56.25	12.5	18.75	0	0	93.75
M.Sc. Ev. Sc.	18	5.56	50	33.33	11.11	0	0	100
M. Sc (I.T.)	20	0	35	35	5	0	0	75

YCMOU Courses

Title of the Programme	Total no. of students appeared	Total Pass %
B.L.I. Sc.	36	58.33
M.L.I. Sc.	22	59.09
Diploma in journalism	10	90

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes?

The IQAC monitoring of the teaching learning process is done through -

- The review of teaching learning plan
- Feedback from students and parents and its' analysis
- Departmental reports
- API and Self Appraisal Forms
- Attendance committee reports
- Internal audit on the basis of departmental reports, feedback analysis
- Analysis report is discussed with Principal and recommendations for improvement are given by Principal and IQAC coordinator to the respective Heads/In charge.

2.13 Initiatives undertaken towards faculty development:

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	-
UGC - Faculty Improvement Programme	-
HRD programmes	14
Orientation programmes	90
Faculty exchange programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	-
Summer / Winter schools, Workshops, etc.	-
Short term courses	-

2.14 Details of Administrative and Technical staff.

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	11	05	-	05
Technical Staff	35	19	-	19

Criterion – III**3. Research, Consultancy and Extension**

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution.

- Dynamic and active Research Committee
- Initiated yearly organization of International conference/Seminar /workshops.
- Inspiring the faculty members to participate/present paper at national and international level.
- Promotes faculty to apply Minor and Major Research Projects.
- Promotes faculty for consultancy.
- Implement the idea of research in students through Mini research project.
- Procured opportunities to staff and students for publication of online journal J-BNB
- Introducing Research Scholar programme for UG students.
- Creation of research aptitude
- Promotes Patent publication
- DBT Star college Scheme awarded to four departments

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	Nil	Nil	-
Outlay in Rs. Lakhs	-	-	-	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	-	02	02
Outlay in Rs. Lakhs	76000/-	-	76000/-	

3.4 Details on research publications.

	International	National	Others
Peer Review Journals	09	14	-
Non-Peer Review Journals	Nil	Nil	-
e-Journals	-	20	-
Conference proceedings	-	25	-

3.5 Details on Impact factor of publications.

Range	Average	h-index	Nos. in SCOPUS
1.341 to 5.981	3.661	12	

- 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations.

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects ongoing	-	-	-	-
Minor Projects ongoing	-	-	-	-
Interdisciplinary Projects	01	Under star DBT	As per requirement	-
Industry sponsored				
Projects sponsored by the University/ College	1 years	University of Mumbai	76000/-	76000/-
Students research projects (other than compulsory by the University)	01	DBT Star	14340/-.	-
Any other(Specify)	01	Science Square	As per requirement	
Total				

- 3.7 No. of books published i) With ISBN No. 05
 ii) Chapters in Edited Books - Nil
 iii) Without ISBN No. Nil

- 3.8 No. of University Departments receiving funds from
 UGC-SAP CAS DST-FIST } N.A.
 DPE DBT Scheme/funds }

- 3.9 For colleges

Autonomy CPE DBT Star Scheme ☒
 INSPIRE ☒ DST-FIST ☒ Any Other (specify ☐

- 3.10 Revenue generated through consultancy Rs. 20,000/-

3.11 No. of conferences Organized by the Institution

Level	International	National	State	University
Number	01	Nil	Nil	-
Sponsoring agencies	UGC	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons: =18

As expert : 08

As Chairperson: 02

As resource person : 08

3.13 No. of collaborations

International National Any other

3.14 No. of linkages created during this year - 02

3.15 Total budget for research for current year in lakhs :

From Funding agency : Rs. 76000 / - from University

From Management of University/College :- As per requirement chemicals and lab facilities are provided

Total

3.16 No. of patents received this year :

Type of Patent		Number
National	Applied	Nil
	Granted	02
International	Applied	Nil
	Granted	-
Commercialised	Applied	Nil
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute

Total	International	National	State	University	Dist	College
48	14	10	01	06	01	19

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

- 3.19 No. of Ph.D. awarded by faculty from the Institution : **04**
- 3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones) JRF SRF Project Fe **Nil** Any **Nil**
- 3.21 No. of students Participated in NSS events:
 University level **03** State level **-**
 National level **Nil** International level **NIL-**
 COLLEGE : 150 DISTRICTS : 92
- 3.22 No. of students participated in NCC events:
 University level **77** State level **18**
 National level **05** International level **01**
- 3.23 No. of Awards won in NSS: **Nil**
- 3.24 No. of Awards won in NCC
 University level **05** State level **05**
 National level **02** International level **01**
- 3.25 No. of Extension activities organized :
 University forum **-** College forum **03**
 NCC **12** NSS **35** DLLE **01** DBT star **02** WDC **03**
- 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility (Details are included in Annexure ii)
- Women empowerment programmes were arranged through WDC.
 - Programme was arranged on Drawing and painting arts (Warly) through DLLL.
 - Life Skills conducted for students through Counselling Cell.
 - Tree plantations programmes were arranged through NSS and NCC.
 - Assisted to Sobati- School for blind and mentally challenged children.
 - College- School complex laboratory visit for inculcation of research aptitude

- among school level student.
- vii. NSS Camp at Mann ashram shala.
 - iii. Gender Sensitization programmes.
 - ix. Through Jaagar janivancha many programmes were arranged.
 - x. Orientations of the woman legal rights.
 - xi. Various value added workshops conducted through departmental club.



Criterion - IV**4. Infrastructure and Learning Resources****4.1 Details of increase in infrastructure facilities:**

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	13.5	--	--	13.5acres
Class rooms	19	--	--	18
Laboratories	20	01	--	21
Seminar Halls	02	--	--	02
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		46	STAR	
Value of the equipment purchased during the year (Rs. in Lakhs)		8,85,044/-	-	

4.2 Computerization of administration and library;

1. For Library Automation Open Source Koha Software initiated.
2. Digital Repository is regularly updated with additions.
3. Communication via webmail and Social media.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value in Rs.	No.	Value in Rs.	No.	Value in Rs.
Text Books	5296	463097	443	51554	5739	514651
Reference Books	21140	6771877	872	578406	22012	7350283
e-Books	8100 + from N-List	Paid By Mgmt	-	-	8100+ from N-List	Paid By Mgmt
Journals	43	70852	-	-	43	70852
e-Journals	6000+	Paid By Mgmt			6000+	Paid By Mgmt
Digital Database	4	Paid By Mgmt			4	Paid By Mgmt
CD & Video	563		19	-	582	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others laptops
Existing	212	06	2mbps	All pcs in all departments, Library, Admin office	07	01	12	11
Added	-	01	2mbps	-		-	-	01
Total	212	07	2 lines of 2mbps		07	01	12	12

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

1. Orientation lectures "How to access online Databases" for staff and students.
2. Workshop of Use of Latex Software for staff and students.
3. Certificate course in bioinformatics was conducted.
4. Training to students -handling of equipments.
5. Certificate Course in Laboratory Administration and Management.
6. Workshop on Molecular Biology techniques.k

4.6 Amount spent on maintenance in lakhs

- i) ICT : Rs 4,23,285/-
- ii) Campus Infrastructure and facilities: Rs. 15,14,995/-
- iii) Equipments : Rs.1,43,039
- iv) Others : - Building Rent : 8,16,252/-

Criterion – V**5. Student Support and Progression****5.1 Contribution of IQAC in enhancing awareness about Student Support Services**

- i. Orientation lecture by Principal for all the students ,
- ii. Orientation session by examination committee to staff members, for about rules and regulations of examinations and paper assessment.
- iii. Orientation by librarian for facilities available for the students,
- iv. Orientation to library staff, administrative staff, departmental staff.
- v. Orientation to all committee heads, coordinators.
- vi. Regular Council of students.
- vii. Implementation of Mentor system at classroom level.

5.2 Efforts made by the institution for tracking the progression

- i. Audit of individual departments about academic and infrastructural growth.
- ii. Audit of NSS/NCC/DLLE/Cultural/WDC/Gymkhana committees
- iii. Committee meetings.
- iv. HODs meetings.
- v. Collection of data to calculate student's satisfaction from T.Y. students and its analysis.

5.3 (a) Total Number of students

UG	PG	Ph. D.	PG Diploma	YCMOU
1595	145	32	-	64

(b) No. of students outside the state 19(c) No. of international students NIL

Men

No	%
701	41.28

Women

No	%
997	58.71

Enrolment under University of Mumbai

Year	General	SC	ST	DT/NT/VJ	OBC/SBC	Physically Challenged	Total
2014-2015	1058	176	47	75	399	-	1755
2015-16	980	201	51	89	416	-	1737

Demand ratio (no. of applications/no. of seats)**Drop out ratio**

F.Y. B.Sc. (aided) : 9.76 F.Y. B.Sc. (unaided) : 18.38

F.Y. I.T. :: 10.24

< 0.5

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Biotechnology and Microbiology Coaching for all India level (subject related) competitive examinations.
- Chemistry department organised workshop on Preparation for NET/SET
- Subscribing for competitive exam magazines like CSR, Spardha Pariksha.
- Providing book facility for different exams like NET/ SET/ GATE/ GMAT/ CSAT.
- Conducting preparatory sessions for competitive exams.
- Examination in the subject of Chemistry.

No. of students beneficiaries:

112

5.5 No. of students qualified in these examinations

NET	SET/SLET	GATE	CAT
IAS/IPS etc	State PSC	UPSC	Others
--	--	--	-

5.6 Details of student counselling and career guidance

Total 55 cases were accounted in this academic year which includes 34 follow up cases of last academic year.

- The cases in which parental support was needed the parents were called and were reported about the same.
- To promote mass awareness regarding mental health, life skills sessions were conducted in T.Y. Classes and M. Sc Classes. The life skill sessions this year included assertive communication, self awareness.
- A mass awareness board has been put up on the ground floor where various articles are put up to promote mass mental health awareness

No. of students benefitted:

114

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
10	276	4	8 (Zoology)

5.8 Details of gender sensitization programmes.

On Gender Sensitization programmes were organized through NSS.

Lecture on empowerment of women was organised by WDC.

5.9 Students Activities

No. of students participated in Sports, Games and other events

State/ University level

National level

International level

No. of students participated in cultural events

State/ University level

88

National level

04

International level

--

No. of medals /awards won by students in Sports, Games and other events

Sports : State/University level

35

National level

--

International level

--

Cultural: State/University level

--

National level

-

International level

--

5.10 Scholarships and Financial Support

	Number of students	Amount in Rs.
Financial support from institution	-	-
Financial support from government	321	33,66,765
Financial support from other sources	05	12,400
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level

-

National level

--

International level

--

Exhibition: State/ University level

-

National level

-

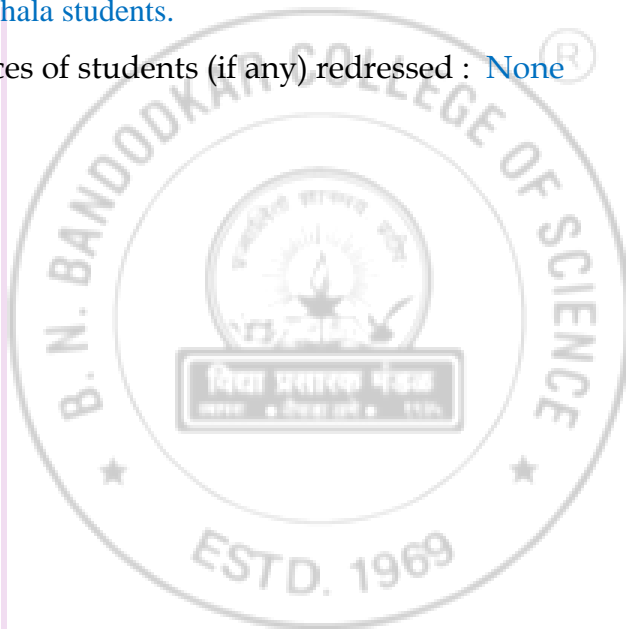
International level

--

5.12 No. of social initiatives undertaken by the students:- 05

- i. Tree Plantation,
- ii. Blood Donation Drive.
- iii. Selling Rakhis to support mentally and physically challenged.
- iv. Blood Donors Brigade "Red Brigade"
- v. Landmark project of Digital and Safe Thane inaugurated at Kashinath Ghanekar Auditorium on 10th September 2015 by Aahan Foundation- Responsible Netism, Cyber Cell Thane. NSS volunteers were the torch bearer of the programme.
- vi. **Nisarg Mela** for school students organized by Enviro Vigil
- vii. 'Energy Audit and Conservation'.
- viii. Collected & distributed cloths, school stationery, kirana material to Maan Ashramshala students.

5.13 Major grievances of students (if any) redressed : None[®]



Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision: Imparting quality education in science.

Mission: To mould students into rational thinkers, competent workers and socially aware citizens

6.2 Does the Institution has a management Information System : Yes

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development:

- i. Arranging workshop/ Seminars/Conferences in various subjects
- ii. Bridge Courses + Remedial teaching initiated
- iii. Conducting Enrichment courses
- iv. Promote teachers to participate in various curriculum based programmes /courses.
- v. Institution has started one certificate courses for the students benefit.
- vi. Management arranged popular lecturers/ talks of stalwarts/foreign scientist for students and faculty.

6.3.2 Teaching and Learning:

- i. Monitoring of teaching – learning process through student's feedback.
- ii. Records of tests and feedback properly maintained
- iii. Ensures proper learning facilities.
- iv. Use of ICT technique in teaching
- v. Digital Repository / web OPAC,
- vi. Free internet facility for all students and staff
- vii. Project based learning through Science Square, Research Scholar Programme and DBT Star Scheme for UG students.
- viii. Industrial visit , excursions, project exhibitions, model based teaching, poster presentations
- ix. Management arranged workshop for the incharge of department to improve the quality beyond excellence in teaching-learning, research and social responsibility.

6.3.3 Examination and Evaluation:

- i.Orientation lecture to students
- ii.Orientation of staff members about supervision and evaluation work.

6.3.4 Research and Development

- i.Students have undertaken Mini research projects.
- ii.Inspire Teaching staff members to undertake research by felicitating them.
- iii.Research Scholar Programme
- iv.Guidance for Patents
- v.College Journal with ISSN name J-BNB
- vi.Promoting faculty participation in Paper presentations at various conferences research by granting them leave.
- vii.Encouraging for Paper publications in high impact factor journals
- viii.Promote students for writing reports and research papers
- ix.Organised National & International Annual conference and two preparatory workshops.
- x.Promote students to present their research work in Conferences/Seminars
- xi.Promote students to publish their research work in online journal J-BNB
- xii.Motivating to Teaching staff members and students to utilised JSTOR

6.3.5 Library, ICT and physical infrastructure / instrumentation

- i. Provision of Recent reference books and peer reviewed indexed journals to the students and teachers.
- ii. ICT used efficiently and effectively for the Library automation.
- iii. Provision made for staff and students to well verse regarding library databases.
- iv. Addition in digital repository
- v. Interdepartmental sharing of instruments and facilities.
- vi. College Katta, AC laboratories, Botanical /medicinal garden, Butterfly Garden, computers added through Star College Scheme
- vii. VPMs Intercollegiate Library Facility available for staff members.

6.3.6 Human Resource Management

- i.Improvement and achievement of teaching and non-teaching staff is appreciated.
- ii.According to the capacity, interest and expertization the extracurricular activities are deployed.
- iii.Suggestion box is kept and suggestions from all stakeholders are consider for

improvement.

iv. Issues discussed in HOD- in-charge and Principal meeting & innovative planning and implementation were done.

v. Assistance forwarded by departments for various programs and activity.

6.3.7 Faculty and Staff recruitment :

- i. Staff recruitments are as per the rules set by Govt. of Maharashtra and University of Mumbai.
- ii. Temporary staff appointed by management
- iii. Staff for unaided section is appointed by management.

6.3.8 Industry Interaction / Collaboration:

- i. Eminent personalities from industry interacted with students through activities of departmental clubs
- ii. Interaction with industrial workforce is facilitated with annual Career melava.
- iii. Employment cell invites renowned companies for campus placements. Collaboration with HOPE, Hariyali, TERI, SACCON, WWF SREERAM , NASS, IAAB, TMC.

6.3.9 Admission of Students:

- i. Merit based On-line admissions are given to the students as per the rules and regulations governed by the Government of Maharashtra and University of Mumbai.
- ii. Help desk is available for all students during May vacation till the admission process ends.
- iii. Subject wise Flex boards and Flyer are displayed throughout the year.
- iv. Detailed prospectus available on website which gives information regarding different courses, along with fees structure for cancellation of Admission,
- v. For diploma courses the norms are led down by VPM are followed.

6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> • Duty leave to attend seminar/ conferences/ workshops/FIP. • Salary is paid by the management for newly recruited staff till government's approval is received. • VPM's Employees' Co-op. Credit Society. • Free Yoga classes. • RO water facility available
Non teaching	<ul style="list-style-type: none"> • Duty leave to attend workshops. • Interest free Festival advance is given • VPM's Employees' Co-op. Credit Society. • Free yoga classes. • Uniform is given for unaided class IV employees. • Gum boots and rain coats are given to watchmen. • Gum boots and hand gloves are given to sweeper working for bio compost bin. • The non-teaching staff of the chemistry department are provided with gloves and safety goggles • RO water facility available
Students	<ul style="list-style-type: none"> • Facility to pay the fees in instalments • Insurance, • Book bank facility, • TA/ DA are paid to the students for participation in extracurricular activities. • Earn-Learn scheme for some students. • Free yoga classes, • Facility to attend workshops & conferences organized by College • RO water facility available

6.5 Total corpus fund Generated fees collection: Rs 33,151,433/-

Aided sections Rs. 54,88,576/-

Unaided - Rs 2,76,62,857/-

6.6 Whether annual financial audit has been done Yes

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	.	Yes	IQAC
Administrative			Yes	IQAC

6.8 Does the University/ Autonomous College declares results within 30 days NA**6.9 What efforts are made by the University/ Autonomous College for Examination Reforms NA****6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges. NA****6.11 Activities and support from the Alumni Association**

- i. Alumni meeting were arranged on 06 October 2015 during NAAC visit.
- ii. Lectures by few alumni members were planned for guiding present students.

6.12 Activities and support from the Parent – Teacher Association:

- i. To get timely feedback from parents, Open door policies are maintained.
- ii. Regular meetings are planned under mentor system for the students and feedback given to the parents.
- iii. Parents meeting held during NAAC visit on 06 October 2015.
- iv. Parents meetings for defaulter students is organised which is addressed by Principal, Vice –Principal.

6.13 Development programmes for support staff:

- i. Orientation lecture
- ii. Workshop on computer literacy
- iii. Yoga classes.
- iv. Workshop on skills improvement
- v. Workshop on New Horizon is teaching Learning for all teaching staff members

6.14 Initiatives taken by the institution to make the campus eco-friendly

- i. Paper shredder
- ii. Bio-composting for green waste
- iii. Bio- compost bins are provided to every department

- iv. Segregation of waste
- v. Placard on Energy Conservation
- vi. Tree plantation
- vii. Vermi- composting for canteen waste.
- viii. Lectures by experts are arranged.
- ix. Vertical Garden, Butterfly Garden
- x. identification and naming to the plants of VPM campus
- xi. Mock-Drill was conducted BY Thane police for safety measure in emergency.



Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- i. Various lectures arranged through Research Scholar Program for UG students.
- ii. Lecture series by young scientists.
- iii. According to academic audit report, suggestions given by principal.
- iv. Herbal holy was organised
- v. Awareness program on Laboratory safety before practicals

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year. Details Annexure ii

Major actions

- i. Department wise planning and execution of activities was analysed by IQAC at the end of the year.
- ii. Academic audit conducted by university of Mumbai hence based on AUC Principal gave suggestion.
- iii. RAR was submitted in month of April.
- iv. NAAC peer team visited and the college received 'A' grade after reaccreditation.
- v. Two- Day International Conference on Ecosystem Services of Wetland 'Ardrabhumi 2016' was organized by Department of Zoology and Department of Environmental Science,
- vi. Environmental awareness lecture series was conducted with 'Hope' and Rotary club of thane, by department of zoology and environmental science.
- vii. Skill development and Value added workshops were conducted by various departments
- viii. All activities like cultural, Sports, Literary association, NSS, NCC, Departmental clubs, WDC, DLLE, Jagar Janivancha were conducted as per schedule
- ix. Second volume of e-JBNB was published

7.3 Give two Best Practices of the institution

Given in Annexure iv- a & b

7.4 Contribution to environmental awareness / protection

- i. Plantation projects,
- ii. The college regularly organize lectures on environmental issues
- iii. Energy Conservation, Efforts for Carbon Neutrality, Hazardous Waste Management are the issues that are taken up to design the research projects
- iv. Conscious efforts are made in conservation of water, energy and available natural resources

7.5 Whether environmental audit was conducted? No.

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strengths:

- i. Resourceful Management and Proactive Principal
- ii. Transparent and democratic decision making process
- iii. Experienced and dedicated teaching staff
- iv. Dedicated support staff
- v. Cordial relationship among the members of the management, staff, students and parents.
- vi. Active IQAC members.
- vii. Strategic location and good academic ambience
- viii. Award based college from UOM
- ix. DBT Star Scheme awarded for four departments
- x. Recipient for CPE from UGC
- xi. Array of courses available.
- xii. Representation of faculty members in Board of Studies and syllabus committee contributing to curriculum design.
- xiii. Free access to Journals and databases.
- xiv. Student centric approach- open door policy.
- xv. Student welfare and student support schemes
- xvi. Free yoga classes for staff and students
- xvii. Student feedback analyzed and used for improvement in all processes
- xviii. Optimum utilization of resources
- xix. Teaching aids for ICT enabled teaching
- xx. Student-friendly services.
- xxi. Secured and eco-friendly campus.
- xxii. Wi-Fi campus and free internet service to all.
- xxiii. Canteen and photocopying facility on campus.

Weakness:

- i. Limited role permitted in syllabus framing
 - Space constrains
- i. First generation learners, limitations in creating awareness for implementing value added courses.

Opportunities:

- i. To strengthen Alumni association
- ii. To strengthen linkages with industries.
- iii. Streamlining collaborations and consultancy
- iv. To streamline activities of placement cell.
- v. To have more activities through WDC.
- vi. To conduct job oriented certificate and diploma courses.

Challenges:

- i. Students are from vernacular medium.
- ii. Catering to diverse needs of students within a class space constraint
- iii. Keeping pace with the rapid changes in higher education.
- iv. Generation of resources for up gradation of infrastructure.
- v. To motivate students to participate in various extracurricular activities.

8 Plans of institution for next year?

1. To conduct Green audit of the campus, to implement measures for energy saving.
2. To conduct International conference biotechnology and microbiology
3. To conduct workshop on scientific English and communication skill.
4. To Increase certificate course especially to set up small scale industries.
5. To establish linkages with industry to enhance employment opportunities for students.
6. To conduct Environmental awareness programmes through Environmental Science Department.
7. To arrange campus interview through Placement cell.
8. To enhance awareness program to promote institute-community network through NCC and NSS.
9. To conduct Orientation, refresher course and short term course programs.
10. To conduct workshop to receive grants for Major and minor research projects through various agencies.
 - i. To continue with following activities along with regular scheduled teaching and examination work.
 - ii. Departmental club activities.
 - iii. Remedial lectures for slow learners.
 - iv. Bridge lectures
 - v. Extra coaching for meritorious students.
 - vi. Excursions/Industrial visits/ Visits to Institutes.
 - vii. Mini research project activity for students

- vii. School college complex
- viii. Value added courses
- ix. Skill development workshops
- x. Yoga classes,
- xi. Publishing e- Journal J-BNB
- xii. Literary association activities.
- xiii. Publishing of magazine- Sanyuja
- xiv. Cultural activities.
- xv. Sports activities.
- xvi. Lectures to empower girls through WDC
- xvii. Book exhibitions on special days by Library club- Friends of Library.
- xviii. DLLE activities
- xix. NSS activities –Blood donation, Tree plantation.
- xx. NCC activities.
- xxi. Orientation lectures for students by Principal.
- xxii. Orientation of Newly recruited teaching staff
- xxiii. Orientation of Newly recruited Laboratory staff.
- xxiv. Orientation to students regarding Library facilities.
- xxv. Orientation to students regarding new examination pattern.
- xxvi. Publication of magazine- Sanyuja
- xxvii. Publication of e-journal J-BNB
- xxviii. Excursions and Industrial visits.
- xxix. Mentor System
- xxx. Career orientated lectures through Placement cell.
- xxxi. Life skill sessions by the Counsellor for the Students.
- xxxii. Alumni meet
- xxxiii. Parents meetings.

Name : Dr.Anita S.Goswami-Giri

Name : Dr.Madhuri K.Pejaver


Signature of the Coordinator, IQAC




Signature of the Chairperson, IQAC

_____ The End _____

B.N.Bandodkar College of Science, Thane
Calendar for Academic year 2015 – 2016 / Saur Shake 1937 - 1938
First Term : (8th June – 21st October 2015) Second Term : (16th Nov. – 2nd May 2016)

	JUNE Jeshtha /Ashadh adhik (Shake 1937)					JULY Ashadh adhik /Ashadh(Shake 1937)					AUGUST Ashadh /Shravan (Shake 1937)					SEPTEMBER Shravan/ Bhadrapad (Shake 1937)				
SUN		7	14	21	28		5	12	19	26	30	2	9	16	23		6	13	20	27
MON	1	8	15	22	29		6	13	20	27	31	3	10	17	24		7	14	21	28
TUE	2	9	16	23	30		7	14	21	28		4	11	18	25	1	8	15	22	29
WED	3	10	17	24		1	8	15	22	29		5	12	19	26	2	9	16	23	30
THU	4	11	18	25		2	9	16	23	30		6	13	20	27	3	10	17	24	
FRI	5	12	19	26		3	10	17	24	31		7	14	21	28	4	11	18	25	
SAT	6	13	20	27		4	11	18	25		1	8	15	22	29	5	12	19	26	
	1st week- Additional Exam. Theory 2nd Semester-and 4th semester Library exhibition 5 June: World Environment Day Research Scholar Academy Programme –New batch started 8th June - Degree College reopens ,S.Y.B.Sc. T.Y.B.Sc. lectures begin Principal's inaugural lecture for., S.Y.& T.Y.B.Sc 10th June 1st and 3rd sem additional exam result 15th June Junior college reopens S.Y.J.C. lectures begin 3 rd week Principal-HOD meeting (S.Y.B.Sc. and T.Y.B.Sc practical. batches)Selection of students for committees NCC,NSS enrollment S.Y.J.C. practicals begin 3rd week Principal's inaugural lecture for F.Y.B.Sc. IQAC meeting AdditionalExam(practical) .2nd sem and 4th Semester- Library orientation for Staff Certificate course in Yoga(1st) WDC: Slogan competition NSS -Disaster Management Camp NCC: 1 st year cadet selection Teaching days - 20					1st week (cultural, magazine, gymkhana, literary committees student's interviews for secretary) IQAC meeting 2nd and 4th sem additional exam result Library orientation for TY students 2 nd week –F.Y.J.C.Lectures begin Principal's inaugural lecture (Jr College 11th Std) Nature club(zoology)activity Principal-HOD meeting (F.Y.B.Sc.practical batches) 3 rd week- Parents meeting (F.Y.J.C./S.Y.J.C.and S.Y.B.Sc) Biotech-micro club activity Workshop- Fine Arts 4 th week Essay competition Department-wise parents meeting (T.Y.B.Sc) Maths – Stats club activity Library committee meeting Mentor –distribution of students Last week- First cultural inaugural programme Life skill sessions for TY students. DLLE activity NSS :Energy Audit Workshop NCC : ATC camp Nashik NAAC visit (not yet confirmed) Library exhibition 23 July : Lokmanya Tilak Jayanti Teaching days - 26 18th July Ramzan Id					1st week- student's council meeting Botany club activity, Chemistry club activity Trekking activity - Hiking College school Complex activity Life skill sessions for TY students. 2 nd week -Poetry and story writing competition Recitation Competition Singing competition F.Y.J.C Ist Tutorial Library orientation for M.Sc students 14th Aug 1st workshop International Conference- Wetland - 3 rd week - Physics club and IT club activity Parents meeting of F.Y.J.C. 4 th week Principal-HOD-meeting Last week - Past students- Principal meeting Class test(1st Sem -F.Y.B.Sc.& 3rd Sem- S.Y.B.Sc and Vth Sem,T.Y.B.Sc Library exhibition 29 August : National Sports Day WDC workshop on self defence NSS and NCC :Blood Donation Camp Disaster Management Workshop Teaching days - 23 15th Aug - Independence day 18th Aug - Parsi new year					1st week IQAC &QAC meeting Ist Sem and IIIrd Sem. exam. and Vth Sem practical exam 2 nd week - Debate & Elocution competition 3 rd week -Principal-HOD meeting Women cell activity 4 th week-3 rd cultural programme F.Y.B.Sc parent's meeting Last week- Staff Academy programme Library committee meeting Short excursions(Botany/Zoology) Workshop - Dance submission of Internal Assessment Marklist (Ist Sem.- 3rd Sem. and Vth Sem Parents meeting(Defaulter students F.Y.S.Y.) 23rd Sept : Conference : Coastal and Estuarine habitat restoration Library exhibition 8 Sept. : World Literacy Day NSS Foundation Day Tree Plantation Swachata Abhiyan NCC : ATC camp Ahemdagar Tree Plantation Swachata Abhiyan Teaching days - 24 17th Sept Ganesh chaturthi 24th Sept Bakri idd 27th Sept Anant chaturdashi (Sunday)				

	OCTOBER Bhadrapad / Ashwin (Shake 1937)					NOVEMBER Ashwin/ Kartik Shake 1937					DECEMBER Kartik /Margashirsh Shake 1937					JANUARY Margashirsh /Poush (Shake 1937)				
SUN		4	11	18	25	1	8	15	22	29		6	13	20	27	31	3	10	17	24
MON		5	12	19	26	2	9	16	23	30		7	14	21	28		4	11	18	25
TUE		6	13	20	27	3	10	17	24		1	8	15	22	29		5	12	19	26
WED		7	14	21	28	4	11	18	25		2	9	16	23	30		6	13	20	27
THU	1	8	15	22	29	5	12	19	26		3	10	17	24	31		7	14	21	28
FRI	2	9	16	23	30	6	13	20	27		4	11	18	25		1	8	15	22	29
SAT	3	10	17	24	31	7	14	21	28		5	12	19	26		2	9	16	23	30
	1 st week: 1stSem and 3rdSem theory exam. (1st Oct onward) Vth Sem University Practical exam. IQAC Meeting 2 nd week: L.M.C.meeting College committee Meetings (Degree &Jr college) Degree &Jr college staff meeting Student council meeting Submission of Theory and pract. Mark list (1Sem.-F.Y.B.Sc.and 3rd sem.-S.Y.B.Sc.) 3 rd week Principal- HOD meeting Library exhibition 2 nd Oct Gandhi Jayani Certificate course “ Basics of R programming” NSS and NCC : Gandhi Jayanti run for unity Swachata Abhiyan 21st Oct. 15 End of First Term Teaching Days- 24 2 nd Oct- Gandhi Jayanti 22 th Oct Dasseria 24 th Oct – Moharam 21th Oct 2015 to 15th Nov 2015 Diwali Vacation Zoology and Botany - long /short excursions					16 th Nov Second term begins (16Nov 15 to 30 Apr 16) 1 st sem and 3 rd sem exam result Jr. college First term Theory Exam. 3 rd week Principal - HOD meeting Workshop- Acting Zoology club activity Certificate course in Yoga(3rd) 4th week Parents’ Meeting (Defaulters) Maths and Stats club activity. Last week Fourth Cultural programme Biotech-micro club activity Results - 1Sem.-F.Y.B.Sc.and 3rd sem.-S.Y.B.Sc.) 29 &30 Nov. Career Mela for Jr college students Library exhibition 1 Dec : World AIDS Day 22 Dec : National Mathematics Day WDC : Lecture o n Laws pertaining with women DLLE activity NSS and NCC : ANIS , Gender Sensitization programme and road safety programme Teaching Days- 13 25 th Nov. Guru Nanak Jayanti					1 st week Physics, IT and Chemistry club activity Quiz Competition IQAC Meeting 1st & 3rd Dec Career Mela for Degree college students 2 nd week Students’ council meeting Fifth cultural programme 15 Dec 2nd workshop International Conference- -----Wetland Certificate course “ Fish products” Botany club activity Poetry Competition 3 rd week Women’s cell activity 4 th week 21-22-23 Dec. Sports Day, Annual / Social Days (Non –Instructional/Teaching days) Library exhibition WDC- Interview DLLE activity NSS : Road Safety programme NCC : Pulse polio, International AIDS day programme SSI forms from TY students Teaching Days – 16 24 th Dec id e milad 25 th Dec Christmas 26 th Dec -1 st Jan 16 Winter Break (Christmas Vacation) Zoology and Botany- long/short excursions					1 st week- Inauguration Magazine and Prize distribution ceremony IQAC Meeting 1 st week- SYJC Prelim(theory),CET 2 nd week Principal- HOD meeting 3 rd week SYJC Prelim(practical) Certificate course “ Jam, Jelly squash Preparation” 3rd week class test of 2nd Sem.-F.Y.B.Sc&4th Sem.-S.Y.B.Sc. and VI sem (T.Y.B.Sc.) 4 th week Parents’ Meeting (Defaulter students) Staff Academy programme Library exhibition 3 Jan : savitribai Phule Jayanti and 11 Jan : National Youth Day WDC: Orientation session - Stree mukti NSS and NCC: Yuva diwas Swachata Abhiyan and Blood Donation Camp Online feedback forms from FY SY students Teaching Days- 25 26 th Jan 2013 Republic Day				

	FEBRUARY Poush/ Magh (Shake 1937)					MARCH Magh /Phalgun (Shake 1937)					APRIL Chaitra / Vaishakh (Shake 1938)					MAY Vaishakh /Jeshtha (Shake 1938)				
SUN		7	14	21	28		6	13	20	27		3	10	17	24	1	8	15	22	29
MON	1	8	15	22	29		7	14	21	28		4	11	18	25	2	9	16	23	30
TUE	2	9	16	23		1	8	15	22	29		5	12	19	26	3	10	17	24	31
WED	3	10	17	24		2	9	16	23	30		6	13	20	27	4	11	18	25	
THU	4	11	18	25		3	10	17	24	31		7	14	21	28	5	12	19	26	
FRI	5	12	19	26		4	11	18	25		1	8	15	22	29	6	13	20	27	
SAT	6	13	20	27		5	12	19	26		2	9	16	23	30	7	14	21	28	
	1 st week IQAC Meeting 2nd week.) 16th and 17th Feb International Conference- -----Wetland 3 rd week Principal-HOD meeting IT club activity Defaulters- Parents' meeting Practical Examination of 2nd Sem.-F.Y.B.Sc and 4th Sem -S.Y.B.Sc 28th Feb - Internal Assessment Mark list submission of 2nd Sem.-F.Y.B.Sc and 4th Sem -S.Y.B.Sc and VI sem 4 th week FYJC final Pract. Exam S.Y.J.C. Board Practical Exam. IT- Club activity Library exhibition : • 26 Feb : Swatantryaveer Sawarkar Punyatithi • 27 Feb : Marathi Bhasha Divas • 28 Feb : National Science Day College School Complex activity Teaching Days – 23 19 Feb Shiva Jayanti					1 st week Theory Examination of 2nd Sem.-F.Y.B.Sc and 4th Sem -S.Y.B.Sc 4 th week FYJC 2 nd Term Theory S.Y.J.C. Board theory Exam. 30th March -Submission of Theory and practical Mark list 2nd Sem.-F.Y.B.Sc and 4th Sem -S.Y.B.Sc Library exhibition 8 March : World Woman's Day Teaching Days – Nil 7th March Mahashivratri 24th March Holi 25th March Good Friday					1 st week L.M.C. Meeting college committee meeting (degree college) college committee meeting (Junior college) 2 nd week Jr. and degree staff member's meeting HOD meeting- VPM IQAC Meeting 4 th week F.Y.B.Sc and S.Y.B.Sc. Results& Admission 24th April 2016 Result of 2nd Sem.-F.Y.B.Sc and 4th Sem -S.Y.B.Sc Additional.Theory & Practical Exam for 1st Sem.-F.Y.B.Sc and 3rd Sem -S.Y.B. Sc Entrance exam for Research Scholar Academy Programme Additional.Theory & Practical Exam for 2nd Sem.-F.Y.B.Sc and 4th Sem -S.Y.B.Sc (In June) S.Y.B.Sc. and T.Y.B.Sc Admissions 24th April 2016 Result of F.Y.J.C. S.Y.J.C. Admission Library exhibition Students opinion -form submission (Degree college) Teaching Days- Nil 8th April Gudhi Padawa 14th April Ambedkar Jayanti 15th April Ramnavmi 19th April Mahavir Jayanti					1st May Maharashtra day Celebration Last working day for Jr. College 2nd May : End of Second Term Last working day for Degree College Teaching Days- Nil				



Annexure ii

Sr. No.	Plan of Action	Achievements
1.	To go for Academic Audit	Academic Audit was conducted by University of Mumbai on 19/06/2015.
2.	To submit RAR	RAR was submitted in the month of April
3.	Orientation lecture for Students.	Orientation lecture conducted for S.Y.B.Sc. & T.Y.B.Sc on 08 th June 2015 F.Y. B.Sc on 30 th June 2015
4.	Orientation for Laboratory Assistants workshop on use of computers for data management	Orientation session was conducted in the month of June 2015.
5.	Orientation for Laboratory Assistants	"Preparation of Solutions" on 4 th to 16 th Jan 2016.
6.	Orientation for Office Staff for improvement in working system.	Orientation session was conducted individually.
7.	Orientation for Newly recruited staff by Principal followed by Examination committee to guide them regarding exam system and paper assessment.	Orientation session was conducted on – 8 th June 2015 30 th June 2015.
8.	Orientation for staff members on Teaching-Learning methodologies	Exploring New Horizons of Teaching - Learning Methodologies' was conducted on 16 th July 2015.
9.	Orientation lecture for Students regarding examination rules.	Orientation lecture for Students regarding examination rules.
10.	Orientation lecture for NSS Students	19 th June and 6 th July 2015.
11.	Skill based workshop for teachers	Workshop "Soxhlet Apparatus Assembly" and "Distillation Assembly" was organized on 18 th January 2016.
12.	To conduct NET-SET preparation workshop for temporary teaching staff	Workshop on "NET/SET Examination-Preparation" was conducted on 1 st -4 th March 2016 for temporary teaching staff members.

13.	To procure cochin for competitive examination and to take feedback of it	Cochin and information timely given to students Feedback need to conduct.
14.	To conduct International conference on “Ecosystem Services of Wetlands- <i>ARDRABHUMI 2016</i> ” along with two preparatory workshops.	<ul style="list-style-type: none"> i. 1st Preparatory Workshop was conducted on 14th August 2015. ii. 2nd Preparatory Workshop was conducted on 20th November 2015. iii. International Conference on Ecosystem Services of Wetlands: <i>Ardrabhumi 2016</i> was conducted on 16th and 17th February 2016.
15.	To conduct National Conference on “Coastal and Estuarine Habitat Restoration”	23 rd August 2015 by Bandodkar College of Science, for teaching staff & all students at national level.
16.	To conduct BNB-HOPE Environment Science Lecture Series in collaboration with HOPE	<ul style="list-style-type: none"> i. Talk on Small Wonders in Nature 13 June 2015 ii. Talk on “Diversity of butterflies in India” on 25th July 2015. iii. Talk on “Climate Change and Biodiversity” on 22nd August 2015 iv. Talk on ‘Environmental Challenges faced by India with respect to loss of ecosystem’ on Saturday, 26th September 2015. v. Lecture on "Beauty of Ladakh" on 17th October 2015. vi. Talk on “Trees around you – Virtual Excursion” on 19th December 2015. vii. Talk on ‘Medicinal plants of Himalayas’ on Saturday, 30th January 2016.
17.	To conduct guest lecture series by department of Physics	<p>Guest lectures were conducted on</p> <ul style="list-style-type: none"> i. “How is discovery Made?: The case of superconductivity in quaternary Borocarbides” by Professor Emeritus R. Nagrajan on 21st August 2015. ii. Talk on “Search for Water in Solar System” by Dr Jaydeep Mukherjee, Director, NASA was organised on 10th December 2015.
18.	To conduct various programs through Library Department	Department of Library has arranged a Program on – "Jeevan Pravasi" by Mrs Jyoti Shahane on 22 nd August 2015.



19.	To conduct orientation lectures and Skill development courses for teachers through Research committee.	Safety Handling of Glassware in Laboratory On 8 th December 2015.
20.	To arrange Life skill session with counselor.	Life skills sessions for T.Y.B.Sc. (17 th to 22 nd August 2015)
21.	To conduct value added Courses.	Leadership Development Programme (LDP) organized at Shraddha Garden, Ovala, Thane by NSS on 15 th August to 16 th August 2015.
22.	To conduct Skill development courses for students.	i. Chocolate Making Workshop by DLLE on 30 th June 2015. ii. One Day Skill Oriented Course on Fruit and Vegetable Carving was arranged on 17 th June 2015 by Department of Botany. iii. Instant snacks August 2015.
23.	To conduct career guidance lectures for students	Seminar on Career in Clinical Research was held on 20 th February 2016. Lecture on Career in Statistics by Dr K.D.Phal on 05 th September 2015. Future Prospects in Microbiology and Biotechnology on 9 th January 2016.
24.	To arrange some lectures through research committee	Lectures arranged on the occasion of National Science Day on 28 th February 2016.
25.	To arrange Public lecture	Cancer Awareness on 15 th December 2015 in association with Society for Radiation Research.
26.	To conduct various activities through Sahiya Sahvas	Sahitya Sahavas had arranged a programme on The National Leader's Work for the Development of Society on 15 th December 2015.
27.	To arrange Parents meeting department wise	Department wise parents meetings were conducted by all departments.
28.	To start activity along with NSS unit to help Sobati School for multiple disabled students, by selling their products.	i. 2000 Rakhis (Rs.10/-each) sold by volunteers to support mentally and visually Challenged children of SOBATI, NGO based at Thane. ii. Volunteers collected and distributed cloths, school stationery, kirana material to Maan Ashramshala



		students on 31 st July 2015 and enjoyed a joy of giving.
29.	To conduct various Programs through NSS	<ul style="list-style-type: none">i. Talk on 'Energy Audit and Conservation' was organised by NSS on 25th July 2015.ii. Participation in "Peace Rally" on Hiroshima Day at Azad Maidan organized by University of Mumbai. NSS Cell and Sarvodaya Mandal on 06 August 2015iii. Sensitization programs on MDRTB and XDRTB by NSS in association with Thane Municipal Corporation (TMC) Health Department on 07 August 2015.iv. Tree plantation at Monda Dongar on 09th August 2015.vi. HIV AIDS Sensitization programme on International Yuva day by NSS in association with District AIDS Control Unit (DAPU) Thane District on 12 August 2015.vii. A Prospective Blood Donors Brigade "Red Brigade" a Databank were inaugurated on International Yuva Day, 12th August 2015 .viii. Blood donation drive on 20 August 2015.ix. Blood donation camp organized at Thane Railway station on 26th November 2015 to mark and aware citizens as Shahid Diwas.x. 26th November celebrated as Constitution day. Lecture on "Indian Constitution" delivered by Advocate Bhalerao.xi. Seminar on 09th July 2015 on 'How to Be a Smart Investor'.xii. Participation at Digital and Safe Thane movement on 10th September 2015.xiii. Talk on "Carbon Footprints" on 11th July 2015.xiv. Participation in "Peace Rally" on Hiroshima Day at Azad Maidan organized by University of Mumbai .NSS Cell and Sarvodaya Mandal on 06 August 2015.



		xv. Talk on Gandhian Thought by NSS in association with Sarvodaya Mandal, Mumbai on 12 August 2015.
30.	To conduct lectures of eminent persons through departmental clubs	All the departments have conducted programmes as per schedule given in academic calendar.
31.	To conduct Journal and Movie Club activity	Journal and Movie Club activity was conducted on 18th July 2015.
32.	WDC	i. Slogan Competition on “Gender Equality” on 04 th August 2015. ii. Poster competition on “Role of Women in Society” on 08 th August 2015. iii. Power Point Competition on the topics <ul style="list-style-type: none">• Rain Water Harvesting, Need of hour• Dr. A.P.J. Abdul Kalam Vision 2020. iv. Nobel Peace Prize Winner 2014: Malala Yousafzai and Kailash Satyarthi on 5 th February 2016. v. Workshop on “Self-defence by women” on 09 September 2015. vi. Workshop on Harmony-Tuning of Mind and Body on 13th February 2016.
33.	Celebration of festivals	i. Guru Poornima celebration on 31 July 2015 by NSS. ii. Teachers Day celebration on 05 September 2015 by NSS. iii. Participation in Dahi handi Utsav at Bhagavati Maidan on 06 September 2015 by NSS. iv. Mangalagaur on 08 August 2015 by IQAC v. Herbal Holi on 22 March 2016 by Department of Botany.
34.	To introduce Bandodkar katta	The Inaugural function of Cultural Association and Bandodkar Katta on 03 rd August 2015.
35.	Certificate courses on Yoga.	During the year four courses were conducted.
36.	Activities through DLLE on entrepreneur skills.	Earthen pot painting was done by students. Other activities on skill developments were conducted.
37.	To conduct various competitions through Literary	Various competitions were conducted throughout the year.

	associations	
38.	To have annual Sport day in last week of Dec.	Organized Annual Sports Day on 21 st December 2015.
39.	To conduct Annual cultural day	Annual Cultural programme on 23 rd & 24 th December 2015.
40.	To initiate additional measures to inculcate research aptitude among students along with personality development.	Research Scholar programme is continued from previous year. Entrance test was conducted on 2 nd May 2015.
41.	To celebrate more days through Friends of Library	<p>Book Display and Poster Display in Library on various occasion-</p> <ol style="list-style-type: none"> Savitribai Phule Jayanti on 8th January 2016 Swami Vivekananda Jayanti on 11th January 2016 Mahatma Gandhi Punyatithi on 30th January 2016 Vinayak Damodar Sawarkar Punyatithi on 26th Feb 2016 Marathi Rajabhasha Divas on 27th Feb 2016 National Science Day on 29th Feb 2016 World Kidney Day - 13th March 2016 World Sparrow Day : 20th March 2016 World Metereological Day - 23rd March 2016 World Book and Copyright Day - 23rd April 2015 World Environment Day - 5th June 2015 Rajashri Shahu Maharaj Jayanti – 26th June 2015 Lokmanya Tilak Jayanti - 23rd July 2015 Hiroshima & Nagasaki Day - 6th & 9th August 2015 Netaji Subhash Chandra Bose Punyatithi – 18th August 2015 World Sports Day - 29th August 2015 World Literacy Day - 8 September 2015 World Ozone Day - 16 September 2015 World Standard Day - 14 October 2015 Rashtriya Ganit Divas - 22 December 2015
42.	To celebrate various Bhasha days like Marathi day, Hindi day, Sanskrit Day	<p>Days were celebrated –</p> <ol style="list-style-type: none"> Hindi day on 14th Sept 2015, Sanskrit Day on 9th Oct 2015 Marathi Day on -28th Feb. 2016



43.	To collect feedback data from students and its analysis by IQAC	Feedback data from students was collected and its analysis was done and measures are taken for improvement.
44.	To strength the activity of College School complex and Science square committee	Talk on ' Research as Career ' on 9 th January 2016 Workshop on "Science Communication" and visit of School children on 23 rd January 2016.
45.	Publication of the magazine Sanyuja	Magazine was published on 19 th Feb 2015.
46.	Publication of e-journal J-BNB through Research committee	E-journal J-BNB was published on 29 th Feb 2015.
47.	To arrange lecture for all staff regarding health awareness	Cell Death Inhibition by Kaposi's Sarcoma-associated Herpesvirus on 07 th January 2016.
48.	To arrange Alumni meet	Alumni Meet was organised for NAAC visit on 06 th October 2015
49.	To apply for approval from University to start New courses	Application was submitted to start new course and got permission for B. Sc. With NSS as option for Foundation Course.
50.	DBT Star activities	Following were conducted under DBT- STAR Scheme: Chemistry: <ul style="list-style-type: none">i. Project on "Statistical Analysis of Nutrition of Thane in Relation to Diseases" from October 2015.ii. Seminar on "Safety Handling of Glassware in Laboratory" on 08th December 2015.iii. "Preparation of Solutions" from 04 to 16 Jan 2016.iv. "Systematic study of Analytical Balance" 04th to 09th January 2016 .v. "Microwave synthesis of Aspirin from Salicylic acid" from 07th to 09th January 2016.vi. Practical on "To measure pH of various types of Soft Drinks" 04th to 09th January 2016.vii. Practical on "Determination of amount of strong acid present in the given sample by using conductometer" from 04th to 16th January 2016 for F.Y.B.Sc students.viii. Practical on "Estimate the amount of nickel present

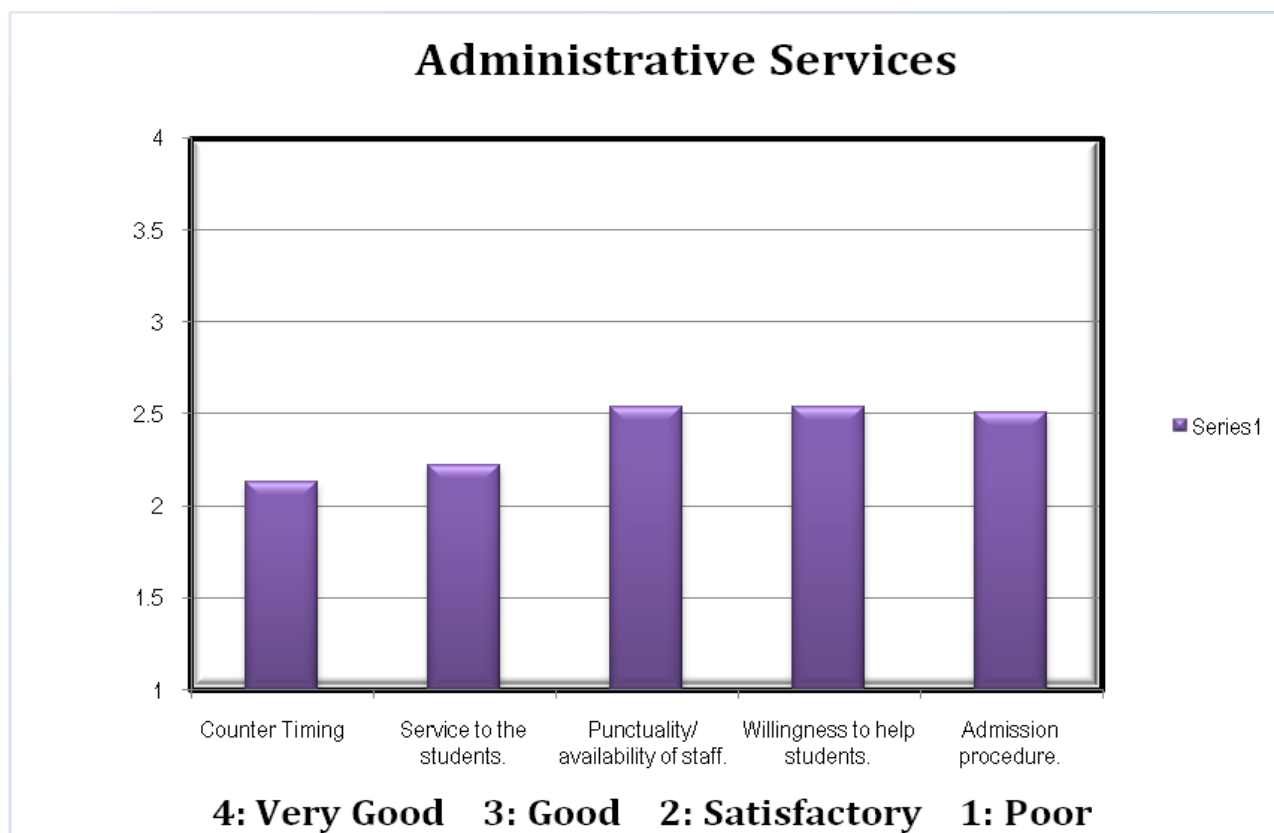
		<p>in the given nickel chloride solution containing copper chloride and free HCl by Gravimetrically using Sintered glass G3 crucibles” on 07th to 09th January 2016.</p> <p>ix. Practical on "To estimate the percentage composition of unknown protein solution Colorimetrically using least Square method by Folin-Lowry method" on 11th to 14th January 2016</p> <p>x. Workshop "Soxhlet Apparatus Assembly" and "Distillation Assembly" on 18th January 2016.</p> <p>xi. “Global Biotechnology Summit” by Department of Biotechnology on 05th – 06th February 2016.</p> <p>xii. Workshop on “Preparation of Solutions” on 16th February 2016.</p> <p>xiii. Seminar on Career in Clinical Research on 20th February 2016.</p> <p>xiv. Industrial Visit to the Dhanamsi Morarji Chemical Co. Ltd. Factory on 28th February 2016.</p> <p>xv. Workshop on “NET/SET Examination-Preparation” from 01th to 04th March 2016 for teaching staff members.</p> <p>Physics:</p> <p>i. Talk on “Search for Water in Solar System” on 10th December 2015.</p> <p>ii. Study Tour to Gujrat from 28th Dec 2015 to 02nd Jan 2016.</p> <p>iii. Workshop “LaTeX: a writing tool for scientific language” on 09 and 10 March 2016.</p> <p>iv. “Overnight Sky Observation” on 14th- 15th January 2016</p> <p>Botany:</p> <p>i. Workshop on “Dry and Wet Preservation Technique” on 28th November 2015.</p> <p>ii. “Student Interaction with Young Entrepreneurs” on 11th December 2015.</p> <p>iii. “Best Out of Waste” on 18th December 2015.</p> <p>iv. Workshop on Hands on Training of Laminar Air</p>
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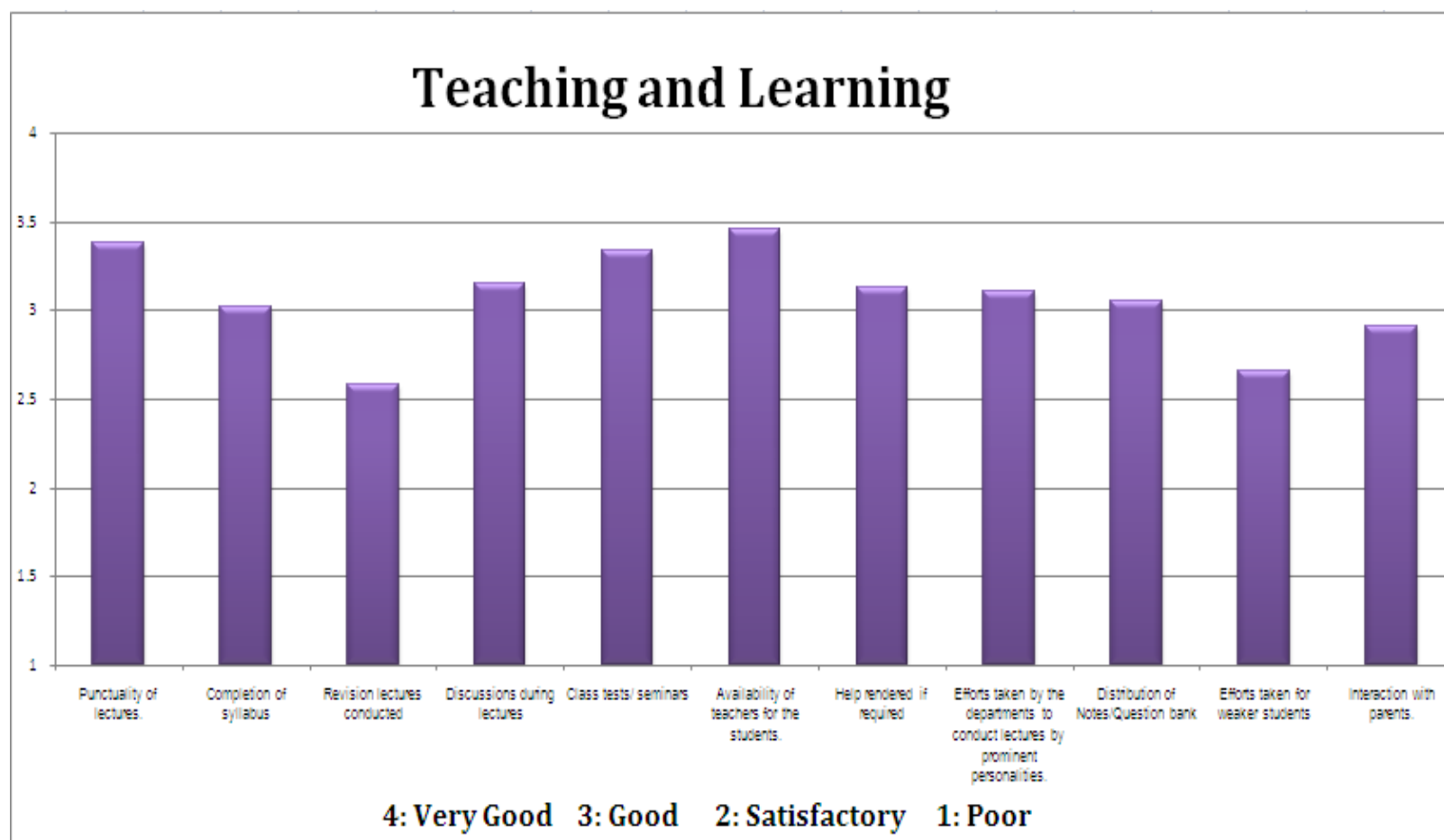
		<p>Flow on 26th December 2015.</p> <p>v. Workshop on Hands on Training of Plant Tissue Culture Techniques on 28th and 30th December 2015.</p> <p>vi. Workshop on "Handling of Microscopes" on 04 & 06 January 2016</p> <p>vii. Guest lecture on "Cellular Adhesion, Stem Cells and Regeneration in Planaria" on 15 January 2016.</p> <p>viii. Practical on "Section Cutting" on 21st, 30th January and 06, 08, 09 February 2016.</p> <p>ix. Workshop on "Preparation of Squash and Flower Rangoli" on 06th – 07th January 2016.</p> <p>x. Practical on "Stain Preparation" on 27th January 2016.</p> <p>xi. Practical on "Chemical Preparation" on 27th January and 5th February 2016.</p> <p>xii. "Soxhlet Apparatus" on 30 January and 03, 06, 08, 09 February 2016.</p> <p>xiii. "Folklore Plants" on 04 - 05 February 2016.</p> <p>xiv. Lecture on "Nature Photography" on 05 February, 2016.</p> <p>xv. "Interaction with a Post Doctoral Fellow from Winstar University" on 23 January 2016.</p> <p>xvi. "Introduction to Bioinformatics" on 27th January and 6 February 2016.</p> <p>xvii. Celebration of Holi in different manner to save Water. The theme was "Herbal Holi-Save Water-Save Trees" on 22nd March 2016.</p> <p>Zoology:</p> <p>i. One-day excursion to Alibaug on 23 January 2016.</p> <p>ii. One-day Bird watching activity to Kopari colony, Thane on 24 January 2016.</p> <p>iii. Guest lecture on Oceanic Division and Zones on 25 February 2016.</p> <p>iv. Activity was arranged based on water parameters (Dissolved Oxygen and Salinity) from 06 to 13 January</p>
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		<p>2016.</p> <p>v. Activity was arranged on the topic of Chromatophore observation from fish scale on 26 February 2016.</p> <p>vi. Field visit for S. Y. B. Sc Students to Bhajnlal Dairy farm and Arnala fish preservation center on 12 November 2015.</p> <p>vii. Field visit to Maharashtra Nature Park on 24 November and 09 December 2015 for F.Y.B.Sc Students.</p>
51.	Interdepartmental activities	<p>i. Botany department conducts lectures of M.Sc. Biodiversity.</p> <p>ii. EVS department is involved with Biodiversity, Wildlife Conservation and Management (PG), Department of Human Sciences (UG), Applied Component Environmental Science for T.Y. B. Sc (Biotechnology, Microbiology and Biochemistry)</p> <p>iii. Statistics department conduct lectures of Botany, Information Technology, Environmental Science and Human Science</p> <p>iv. Biotechnology and Microbiology department conducts lectures for Hospital Administration course run by Advance study centre.</p> <p>v. Mathematics department conducts Bridge Course for students of Biotechnology department.</p> <p>vi. Department of Foundation Course conducts lectures of Ability Enhancement Course to Biotechnology FYBSC students.</p>

Students' Satisfaction Index year 2015-16

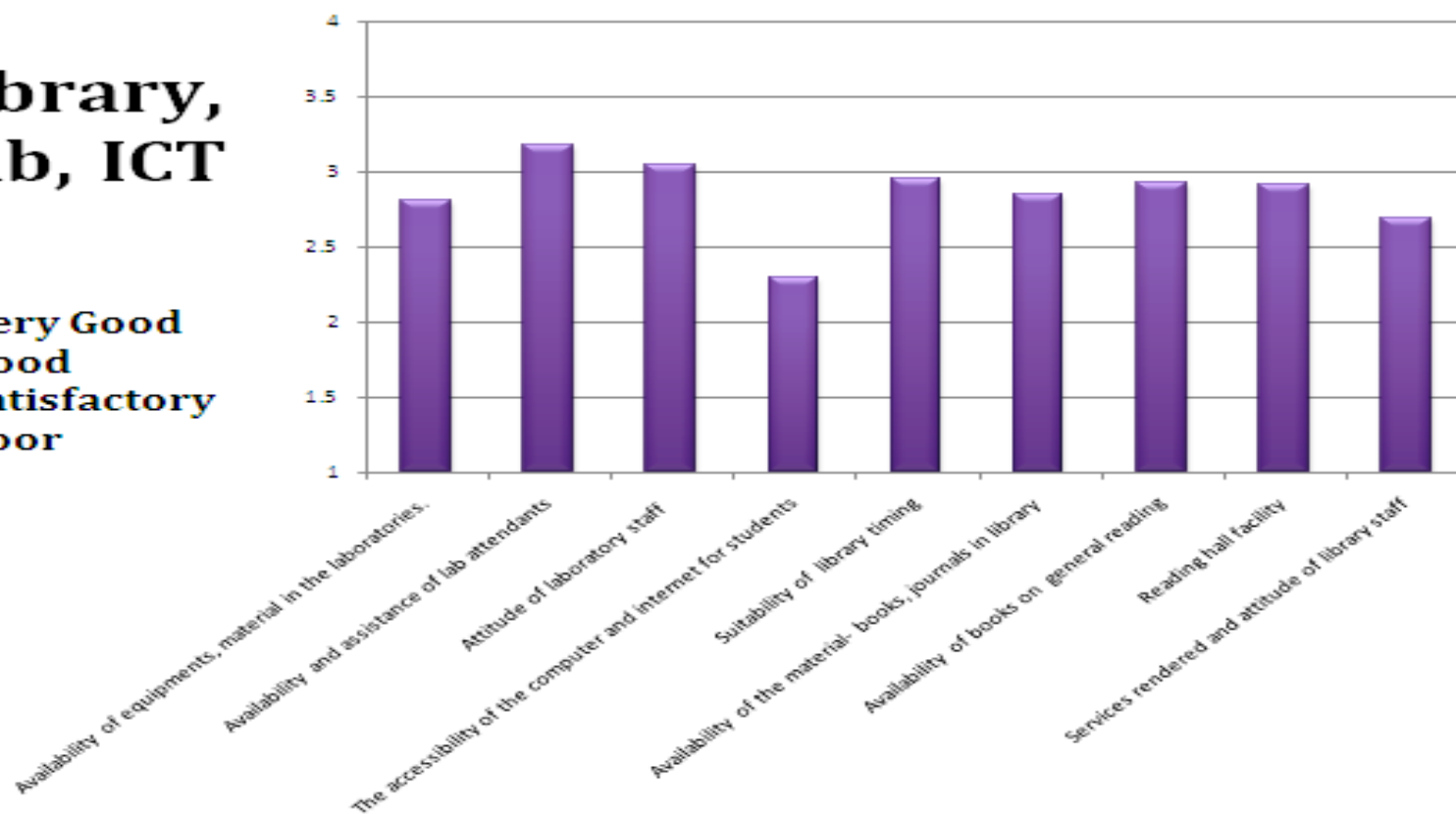
Analysis of the Feedback of UG teachers taken from the students 2015-16



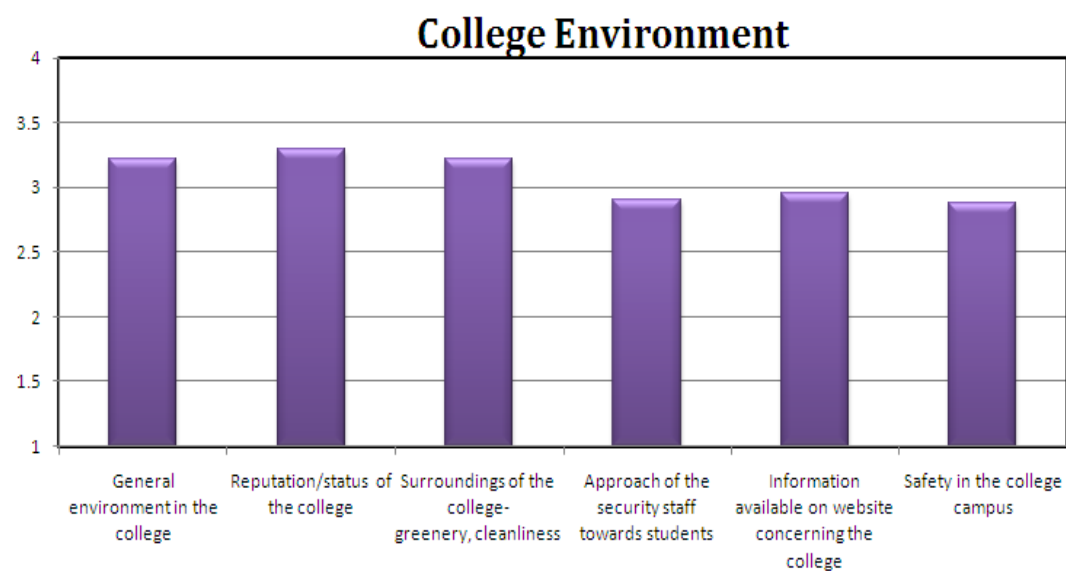
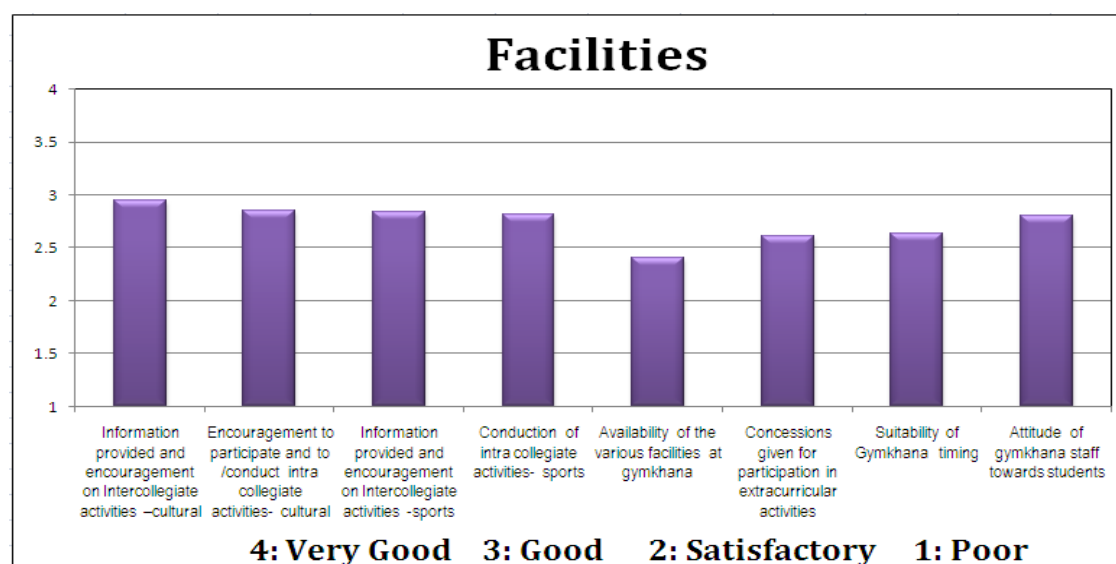


Library, Lab, ICT

4: Very Good
3: Good
2: Satisfactory
1: Poor

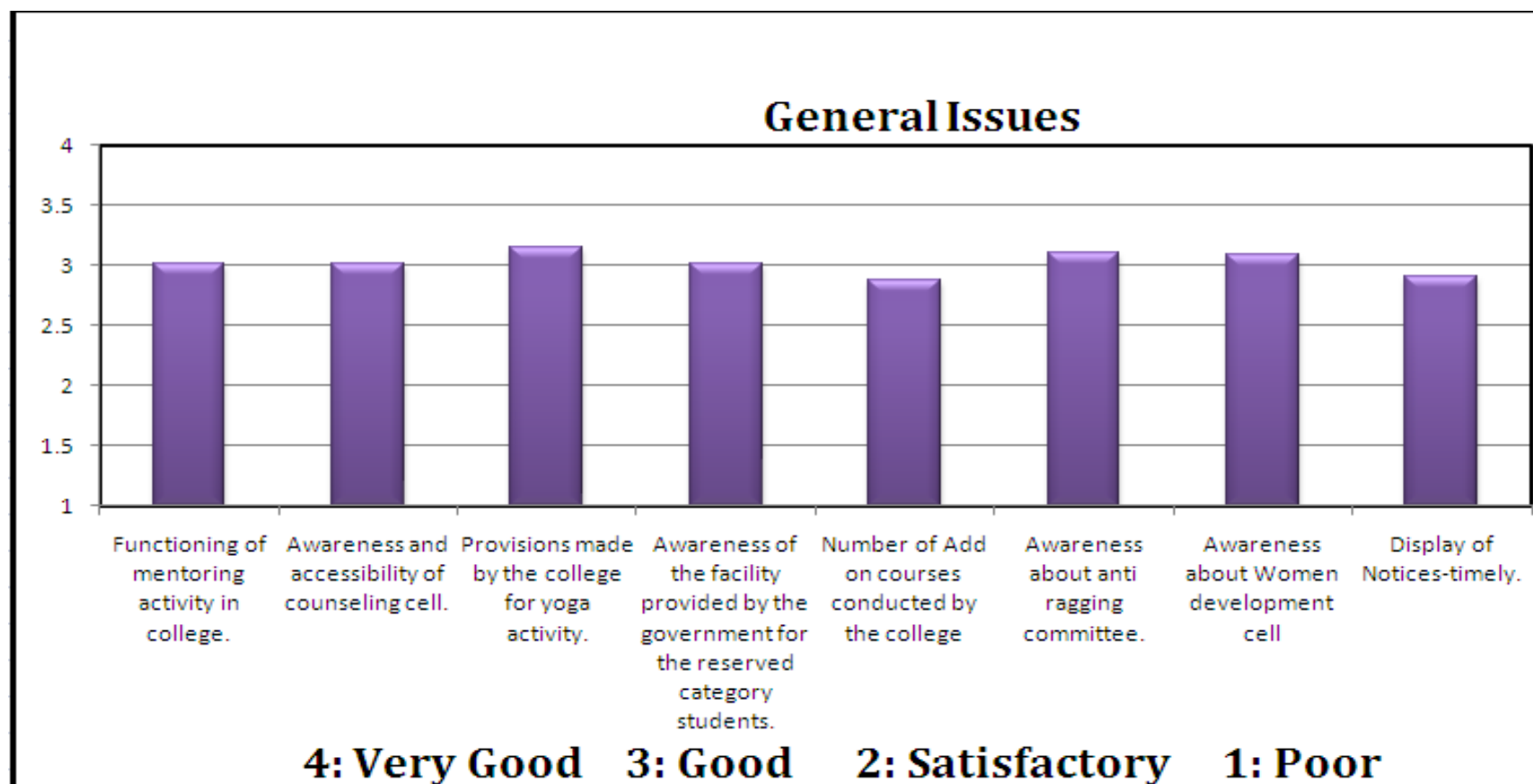


Students' Satisfaction Index year 2015-16



4: Very Good 3: Good 2: Satisfactory 1: Poor

Students' Satisfaction Index year 2015-16





Annexure - iv- a

Best Practice-1

Title: Organizing departmental festivals.

Context:

‘Quality education’ has significant in the development of society. Science is one of knowledgeable generating factor and skilled work force in positive contribution for technological development.

In India, at undergraduate level, limited knowledge is generally acquired by the students through conventional class room teaching, practicals conducted in laboratories, and with the library reference books. With a vision of providing Quality education in science, Inculcation of scientific temper and spirit of enquiry in students becomes prime focus of the institute. Hence, initiative was taken; to train students, think creatively and organize a scientific theme based departmental festival.

Goal:

- To channelize students creativity to enhance students interest in the subject.
- To make them learn scientific concepts, analysis and presentation through innovative ideas .
- To strengthen connect amongst the students and with fellow colleagues.
- To trace hidden talents of students.

The practice:

On the basis of ‘ For the students by the students’, Individual departments celebrated festivals of short duration to inculcate organizing skill among the students. Students of Second year were given the responsibility of organizing the event. The students were urged to design new games, fun events, competitions which were based on scientific themes. They were trained to work in committees for better management of the events. They were made to even design invitations and prizes.

The first year students thereby get the first exposure about skilful organization of the theme based event and they acquired the technical know-how about and improvisations that may be implemented.

Obstacles faced/Problems encountered:

Limited Time and Funds available

Impact of Practice / Evidence of Success:

The festival ‘KIOSK’ was initially organized by a Department of Microbiology and Biotechnology in the year 2012. Since then every year department is successfully organizing the event with the students. Initially intradepartmental event has now seeing the participation of students from other faculty like botany, zoology etc.



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Department of I.T., Department of Physics also has initiated their departmental festivals and successfully hosting the same for past two years.

Resources required:

Uninterrupted efforts by faculty

Motivated creative minds

Devoted team spirit

Funds and time for planning and execution of festival

Contact Details

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Best Practices 2

Title: Life Skills Session

Context:

'Life Skills' are some of the essential requirements to be learned in academic pursuits. These skills pertain to self- awareness and the gradual development of self- confidence for better quality of life. For successful and healthy life, operation skills require to manage effectively to deal with day to day challenges. Hence, Life Skills Session develops a common ground for students coming from diverse backgrounds. It also promotes health awareness amongst students regarding mental health services and its importance.

Goal:

- To promote self- awareness sort among the students.
- To help students to be better decision makers.
- To enhance overall personality of students.
- To create awareness about the benefits of counselling services in various walks of life.
- To promote healthy communication skills amongst all the significant relationship in student's life.
- To develop positive approach in learning to solve the daily hassles.

The practice:

- The college counsellor approaches the head of the department to decide on a mutual accepted date and time for the sessions for final year and postgraduate students.
- The respective teachers were informed accordingly to keep their lecture free and to inform students to be available for the sessions.
- A typed notice is printed and sent to the departments by the counsellor to confirm the session.
- Modules of the life skills session are prepared keeping in mind the needs of the student.
- A formal presentation is made for the students in the classroom addressing to their requirements.
- The counsellor keeps record of the attendance of the students with the help of attendance sheet received for the respective Head of the Departments.
- Students are encouraged further to communicate with the counsellor to address their concern in a timely fashion.

Obstacles faced/Problems encountered:

- Time Limit for the sessions
- Availability of students
- Lack of positive attitude towards life skills session.
- Low motivation.

**Impact of Practice / Evidence of Success:**

Students approach towards counselling and life skills is changing gradually but surely.

Positive feedback given by the students to the counsellor reflecting on the student satisfaction form.

Students demand for extra sessions in a year.

The number of beneficiaries seeking college counselor have increased with time.

Positive impact of the sessions was observed by the teachers among students.

Resources required:

Uninterrupted efforts from the individual faculty teachers.

Available attendant required to attach equipments like the laptop and projector.

Motivated Students and teachers towards life skills session.

Contact Details

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