

B. N. Bandodkar College of Science, Thane



Vidya Prasarak Mandal's
B.N.BANDODKAR COLLEGE OF SCIENCE
Thane 400 601.
NAAC Accredited B++

Re-accreditation Report

Part-B

B. N. Bandodkar College of Science, Thane

Executive Summary

B. N. Bandodkar College was accredited by NAAC in 2003 and now with great pleasure we submit our RAR, recording our progress since then. We are proud to present the outstanding achievements of our students and staff members in the last 5 years, which are reported in accordance with the guidelines laid down in the NAAC Manual on Re-Accreditation.

Vidya Prasarak Mandal (VPM) is a premier educational trust in Thane, which was established in August 1935. It was the dream of the founder member Late Dr. V. N. Bedekar to create an “Island of Knowledge” (‘Jnanadweepa’) in Thane and with singular zeal, and wholehearted support from his colleagues, he succeeded in bringing it in reality. B. N. Bandodkar College of Science is one of the 13 institutions belonging to VPM.

Our institute has welcomed the rationale behind the NAAC with great enthusiasm. Assessment and Accreditation of institutes of higher education is certainly the most effective way of ensuring quality education. In a developing country like India, with its heterogeneous and massive population, such a mechanism has become a necessity.

Majority of the students of this college are either first generation learners or coming from middle class families. Some of them join the college on failing to get admission to professional courses. Hence helping them to overcome their frustration and channalizing their energy to academics and extra curricular activities to gain confidence and to develop personality, is a challenge for the teachers, particularly at F.Y.B. Sc. level.

Our College has taken a serious note of the various suggestions for improvement given in the Peer Team Report of NAAC and has worked sincerely to bring about the necessary improvement.

Contribution to National Development

Serving for the cause of social justice, ensuring equity and increasing access to higher education are few ways by which our institute is trying to contribute to the National development. Our main aim is to mould our students to become socially aware citizens, so we plan the activities to

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help our students to become self-reliant, bold, and capable to meet the future challenges. Hence our efforts are always student centric to improve their all round personality as they grow to be the future citizens of India.

- ☞ Teachers are the role models for the students. Many of our staff members are involved in social activities. Thanks to them for inculcating selfless attitude among the students.
- ☞ Our NCC units develop among our students a sense of discipline, team spirit and dedication to nation building. NCC Units regularly organize training camps and Workshops. The participation of the cadets in National level camps and events enhances communal harmony, sense of National integration and unity and cultural exchange. The adventure activities make the youths strong to face the challenges.
- ☞ Through N.S.S. various activities like tree plantation, blood donation, and social awareness rallies, participation as volunteers in Ganapati immersion programme, water conservation schemes along with NGO Hariyali are organized. These programmes make them capable to contribute to the National development.
- ☞ Some students are rendering their services to the centre “Sobati –the institute for blind and mentally challenged children.”
- ☞ College School - Complex programme: Under this scheme we guide various schools to prepare their science projects for the Children Science Congress competitions and to some extent satisfy the thirst of school children to gain more knowledge. We guide the school students for Jr.& Sr. Young Scientist Examinations conducted by Homi Bhabha Centre. Many of these students receive prizes and medals at State & National levels. Our college students actively participate in helping these youngsters.
- ☞ Research in the fields of Environmental Biodiversity, Green Chemistry and Plant Biotechnology that are going on in various departments, has contributed to National development.

Fostering Global Competencies.

Speedy developments at the global level demand for development of skills, competency and knowledge among students at par with their counter parts elsewhere. In the light of this situation we equip our students to achieve core competencies in a variety of fields to face the global requirements. After realizing this necessity to foster global competencies in post accreditation period our college has undertaken following steps.

- 👉 Our College has introduced several new courses in keeping with the requirement of market forces, e.g. graduation courses in Microbiology; Biotechnology; Computer Science; Post graduation in Information Technology; Ph.D. in chemistry. A diploma course in journalism by YCMOU is also added.
- 👉 Our Management (VPM) has started Foreign Language centre in the campus to conduct Certificate Courses in Japanese, French and German. VPM-IT centre conducts various certificate courses. Since these are part-time courses, our students can join these courses while doing graduation. To add on, post graduation diploma courses are started through Advanced Study Centre and Management Institute, to seek better job opportunities.
- 👉 During the course of classroom lectures, discussions, Seminars and presentations, we encourage the students to develop a global approach and perceive knowledge in relation to international trends and changes.
- 👉 To foster a closer relationship between the world of skilled work and the world of competent learning, different Associations of college invite several nationally and internationally renowned faculties from different fields to interact with the students.
- 👉 Every year we arrange at least one National or State level Seminar/Conference. Prior to these, two Workshops are conducted. We encourage our students to present papers in these Seminars on small projects carried out by them under the guidance of teachers. This helps the students to develop a research mindset.

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- 👉 Various extra curricular activities are regularly organized to create global awareness among students. These programmes reduce intercultural barriers. Cultural activities take the students beyond the confine of syllabi and give them an exposure to issues of national development and also render the training of global competency. Hence we encourage our students to participate in intercollegiate competitions. Our students have won many prizes. And our college has won Best college trophy.
- 👉 To facilitate the fostering of global competencies, we have developed some excellent new infrastructural facilities like
 - i. Our entire campus is Wi-Fi, and we have website.
 - ii. We have video conferencing facility available on our campus,
 - iii. Spacious Reading Hall having computers with net facility is available for all students.
 - iv. We have well equipped laboratories and hi-tech computer & biotech laboratories.
 - v. We have provided smart cards to students and teachers.

Inculcating Value Systems

Although the academic progress is crucial to the success of students, skills become relevant and tools of power when they are accompanied by a comprehensive value base in the individual. The main objective of education is to inculcate the right values together with knowledge, among students so as to cultivate a spirit of co-operation, selflessness and mutual understanding, as they are the future Nation builders.

- 👉 Our college is associated with Vivekananda Kendra, Thane branch. Volunteers from this centre conduct programs and examinations for our students to teach “Swami Vivekananda’s Thoughts”.
- 👉 The healthy co-educational atmosphere preserved in the college is a mirror to the value system promoted by the institution over decades. The healthy practices in this regard include total gender equality, exceptionally clean campus, leading representation of

women students in various associations and activities, lack of status barriers in the staff and a sense of social commitment in the extension and outreach activities.

- ✎ We arrange various lectures on different topics related to social awareness, gender equality, woman empowerment and moral values through Women Development Cell (WDC) and National Service Scheme (NSS).

Promoting the Use of Technology

Most of the spiraling developments can be attributed to the impact of science and technology. Our college has effectively taken into cognizance the use of modern tools and technological innovations for teaching learning and governance.

- ❖ We have some excellent new infrastructural facilities such as a Reading hall, Library with net connectivity, well equipped computer lab, biotech lab & I.T. lab. Our campus is Wi- Fi.
- ❖ In our campus we have six well-equipped auditoriums and two audio-visual rooms that are all connected with optic fiber. Video conferencing facility is available in all auditoriums.
- ❖ All the departments have computers with net connectivity. On entire campus, all computers are LAN connected. We have direct Lease lines of MTNL and VSNL network.
- ❖ A techno savvy generation is the need of this world. In our college, teachers have learnt to use technological aids to improve the quality of their teaching/ presentations. Our students actively participate in Seminars and paper presentation for which they make use of technological aids.
- ❖ Some Chemistry and Zoology teachers are using their own CDs as teaching aids.
- ❖ Our library works on OPAC.
- ❖ Our Administrative office and examination cell are fully computerized. The office staff has been provided proper training to handle the packages installed in office. We use Linux system in our office.

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- ❖ All departmental non-teaching staff has been trained in the basics of computer. The college has its website for enhancing the networking and dissemination of information to the students, parents and other stakeholders

Quest for Excellence

Our college is taking conscious and continuous efforts for skill development of students. The institute and management are focusing on all round development of students and quality enhancement of teachers. We work hard to identify our strengths and weaknesses in teaching-learning process. By taking remedial actions on weaknesses and improving quality of teachers and students, our institute is emerging as a centre of excellence.

- ☞ An Internal Quality Assurance Cell (IQAC) has been formed and is operative since the year 2003-04.
- ☞ A Research Advisory Committee has been formed to evaluate research proposals.
- ☞ Our annual calendar is ready before the commencement of academic year, which is properly planned by our calendar committee by taking into account all the details. We follow the calendar religiously.
- ☞ Formal and informal “Teacher Evaluation” by students help teachers in a big way to improve the quality of their teaching.
- ☞ The Principal holds a meeting of the HODs every month in order to get feedback from the various Departments and to discuss, plan and implement important issues.
- ☞ Feedback from the Industry, Alumni and Peers from other educational institutes also enables the institution to introspect and evolve further.
- ☞ Our Add-on and Autonomous courses help students cultivate their diverse talents.
- ☞ Our management is supportive to provide excellent infrastructural facilities to teachers and students in order to develop global competencies.
- ☞ Eighteen of our faculty members have been proactive as members of syllabus revision committees at University level.

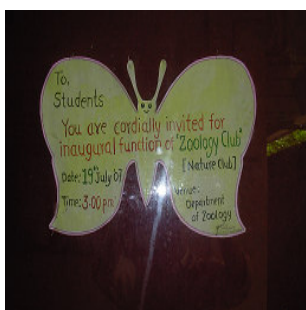
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- ☛ In view of the sesquicentennial celebrations of University of Mumbai, the College organized several cultural and academic programmes in the year 2006 on behalf of the university.
- ☛ The management has spared neither finance nor efforts to provide excellent infrastructural facilities to the faculty and students in order to develop global competencies at the level of excellence.

In view of the expanding global developments, our teachers constantly update their skills so that they can initiate students to new and unexplored areas and help them realize their potential. The management with its farsighted vision is ever ready to help the institution financially and motivate both staff and the students to take additional challenges.

In such a supportive background students are inevitably drawn in and they too strive for unparalleled excellence. Hence we can proudly say that we have been successful in good measure in extending our horizons and we will continue to work ceaselessly towards excellence.

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Criterion I

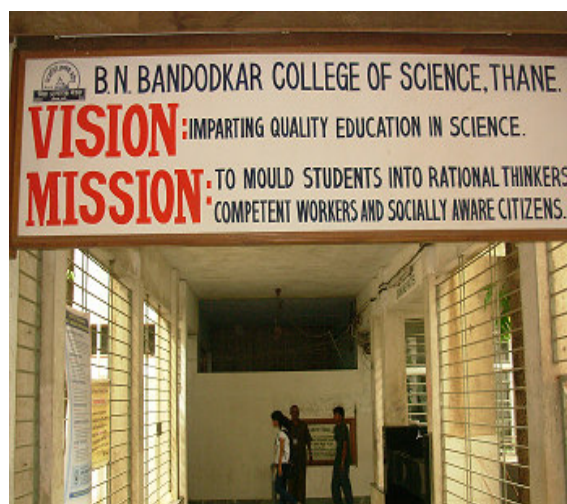


Club Activities

“Yoga” Value Education



Eminent Guest “Dr. Jayant Naralikar”



Criterion I: Curricular Aspects

Our college is affiliated to University of Mumbai and hence we follow the curricula framed by the University for different Courses. Many teachers of our college are members of syllabus committee wherein they contribute to design and develop a curriculum to mould the students into rational thinkers. Maximum efforts are taken to correct the imbalance caused due to specialized education.

Vision of the institute is “Imparting quality education in Science.” Hence our institute encourages teachers and students to upgrade their qualifications and thus the quality. For betterment of students we have started many self finance and add on courses as suggested by NAAC. Curriculum of add on courses are framed with a view of developing an all round and wholesome personality with a wider national and global interest.

1.1 Curriculum Design and Development

1.1.1 State the vision and mission of the institution, and how it is communicated to the students, teachers, staff and other stakeholders?

All the activities of the college are planned and executed keeping in view, our mission and objectives. Our vision and mission statements are:

Vision: Imparting quality education in science.

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

We have displayed these statements in the college on each floor at prominent places, like staff common room , HODs’ rooms, Gymkhana, Ladies room, Library and. all departments. It is printed on the first and last cover page of our prospectus. It is also displayed on our web site.

Our Principal highlights the Vision & Mission to the students during ‘Inaugural

lecture' delivered on the opening day of the college, for every class.

1.1.2 How does the mission statement reflect 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 orientation?

B.N.Bandodkar college of Science was established in 1969 under the management of VPM., Thane on a 13 acres piece of land which was marshy, muddy area inundated by water of the nearby Thane creek. Late Dr. V. N. Bedekar, founder of the Mandal had great foresight for young generation of developing Thane city and need of education to turn these youth into good citizens of India. In our campus his statue is installed behind which is engraved his dream. From the beginning we have the thrust for

- Continuous personal and professional growth.
- Installing moral values to mould the students into excellent human being.
- Providing homely environment in the institution.
- Developing students into socially responsible citizens.
- Promoting research culture.
- Providing them access to a comprehensive array of careers in Science
- Attaining greater heights of glory and excellence in life.

To attain this goal we all put incessant and cognizant efforts.

- ✓ We admit students from Thane and nearby towns like Mumbra, Dombivli, Kalyan, Badlapur, Karjat etc.
- ✓ The students coming from Mumbra are mostly from Muslim community. Most of the girls are coming from conservative families, yet they take admission because of free and homely atmosphere maintained in our college.
- ✓ We believe in total gender equality. A lady Principal heads our institute. There are 50% ladies in each department. Many of them are Coordinators of various committees. Many associations have lady secretary. Many times lady cultural and

general secretary is elected.

- ✓ Along with academic activities, we arrange cultural events, sports competitions, NSS. & NCC activities to help the students for Community orientation and create awareness of the environment.
- ✓ We encourage students for mini research projects.
- ✓ In association with NGO's we arrange lectures to inculcate moral values, social awareness and urge to participate in the process of national development.
- ✓ For fostering global competencies among students, Post NAAC we have started many self financed courses given in 1.1.3
- ✓ Most of the significant developments can be attributed to the impact of Science and Technology. The Technological advancement and innovations have been undertaken by the institution which are given in 1.1.4

Thus our mission statement perfectly reflects the distinctive characteristics of institution in terms of contributing to National development, fostering Global competencies, inculcating a value system, promoting the use of Technology and quest for excellence.

1.1.3 Are the academic programmes in line with the institution's goals and objectives? If yes, give details on how curricula developed/adopted, address the needs of the society and have relevance to the regional / national and global trends and developmental needs? (access to the Disadvantaged, Equity, Self development, Community and National Development, Ecology and environment, Value orientation, Employment, ICT introduction, Global and National demands and so on)

Keeping in view the needs of the research and business world, along with the needs of society at large, college offers new courses that have international value and demand.

- ❖ We have introduced self-financed degree courses in Biotechnology, Computer Science, Microbiology and Post-graduate course in I.T. Also M.Sc. in Chemistry is offered. Besides this, M.Sc. by research is offered in Botany, Zoology and Chemistry.

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- ❖ Ph.D. Programmes are offered in Botany, Chemistry, and Zoology.
- ❖ Our College is a centre of Yashwantarao Chavan Maharashtra Open University (YCMOU) Nasik and offers the degree of B.L.I.Sc. and M.L.I.Sc. and diploma in Journalism.
- ❖ Responding to global demands, Management has started foreign language centre in the campus to conduct Certificate Courses in Japanese, French and German.
- ❖ In our campus we have VPM's I.T. centre, where CCIT, (Certificate Course in Information Technology), CCP (Certificate Course in Computer programming), WPD (Certification course in Web- Designing), MSCIT (Maharashtra State Certificate Course in Information Technology) are conducted. Our students can avail this facility.
- ❖ We have Advanced Study Centre where diploma courses in Analytical chemistry, Applied Statistics, Horticulture and Regulatory affairs are conducted in the evening. These courses are industry oriented.
- ❖ We arrange certificate courses in Bioinformatics & Gardening.
- ❖ A certificate course in Yoga is conducted for the students, teaching and non-teaching staff of our college to increase physical and mental strength.
- ❖ Our Principal guides the students on the opening day of the college about traditions of the college and tries to stress on moral and value education.
- ❖ For imparting value based education various activities like sports, cultural programmes, lectures of eminent personalities on various topics, various projects through NSS, NCC and Science Square are conducted.
- ❖ All departments have departmental clubs which arrange various programmes like guest lectures, quiz competitions etc. Students participate in all such activities. They are also involved in planning, execution/conducting activities / programmes.

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The college provides required facilities to conduct/organise such activities.

- ❖ Teachers encourage students to do mini research projects which helps to inculcate research ability.
- ❖ We have a career guidance/placement committee. Lectures are arranged for the students on career guidance.
- ❖ We have a Students' Council in our college. Members of the students' council are involved in the planning , co-ordination and execution of extra curricular activities
- ❖ Basic Human values is one of the topics for Foundation course paper syllabus.
- ❖ During 10 days of NSS residential camp our volunteers visit nearby Adivasi padas/villages & guide the women and children upon improving their health, hygiene and nourishment. Activities are undertaken where an interaction between students and community takes place.
- ❖ NSS volunteers who were trained by NGO 'Enviro-vigil' in solid waste management explain to the citizens about Zero Garbage Concepts.
- ❖ Tree plantation activity is conducted along with 'NGO Hariyali' where-in people from the near by locality are also involved.
- ❖ Our NSS volunteers have worked as Traffic Wardens and assisted traffic police in monitoring the traffic at various traffic islands in Thane city. Traffic awareness campaign was conducted at four different places for two days where-in details regarding traffic rules, precautions to be taken while driving a vehicle, PUC, Insurance, vehicle tax, registration, and different acts related to the above were given to citizens of Thane.
- ❖ Community orientation is done through other activities such as Pulse polio campaign, Blood donation camps, Mob controlling at the time of Shri Ganapati immersion and various activities related to Environmental pollution.
- ❖ Internet facility is available in the college library and in the departments free of

cost, which was a paid facility, pre NAAC accreditation.

- ❖ VPM campus grounds, libraries and auditoriums have been provided with Wi-Fi.

And students can make use of this facility.

- ❖ Many of our teachers are associated with NGO's like Hariyali, Jidnyasa, Enviro vigil and Hope from Thane. We encourage our students to participate in social activities. Some of our students volunteered to help the students of Sobati- An institute educating blind and disabled students.

1.1.4 How does the curriculum cater to inclusion/integration of Information and Communication Technology (ICT) in the curriculum, for equipping the students to compete in the global employment markets?

- For T.Y. B. Sc. Mathematics, Applied component subject is Computer Science.
- For T.Y.B.Sc. Statistics, Applied component subject is Operations Research, where they study TORA package. For F.Y.B.Sc Statistics, practicals on Excel are conducted.
- For S.Y.B.Sc./ T. Y. B. Sc. Zoology, Bioinformatics is totally computer based. We also conduct certificate course in Bioinformatics.
- T.Y. B.Sc Chemistry students use computers during practicals.
- T.Y.B.Sc Physics students learn C++ programming as a part of the syllabus.
- The College has provided computers with internet connectivity to all Departments. We have laptops; LCDs. Teachers can make use of them when required. National & International journals are available to the students as we have subscription for databases like J-STOR.
- We arrange activities that include power point presentations and training programs to generate computer literacy among students and teachers for use of ICTs.

1.1.5 Specify the initiatives and contributions of the institution in the curriculum design and development process. (Need assessment, development of information database, feedback from faculty, students, alumni, employees and academic peers, and communicating the information and feedback for appropriate inclusion and decisions in statutory academic bodies, Membership of BOS and by sending agenda items etc.)

The University designs curricula and all colleges affiliated to it abide by those guidelines. Our faculty members are representatives/members of the syllabus committee at the University. They collect information from the internet and feedback from students, alumni, and industry and academic experts to provide inputs to the Board of Studies in order to restructure the syllabi and make them more relevant. They contribute or help in conducting Workshops related to syllabi. During these five years eighteen of our faculty members have been proactive as members of syllabus revision committees at university level. At present following staff members are the members of the syllabi reformation and designing.

Sr. No.	Subject	Members
1	Zoology	Dr.(Ms).M.K.Pejaver, Dr.(Ms.) N.N.Patil, Dr. R.P.Athalaye
2	Chemistry	Mrs. .M. P. Akolkar, Mr. V. S. Burkule, Dr. U. R. Pandit
3	Statistics	Mr. A. P. Patil
4	Botany	Dr. (Ms.) M. S. Mulgaonkar, Dr. M.J.Kolet
5	F. C.	Mr.S. K. Bhosle

Whenever a new syllabus is framed, the college teachers attend Workshops and get trained in new topics.

1.2 Academic Flexibility

1.2.1 What are the range of programme options available to learners in terms of Degrees, Certificates and Diplomas?

College offers following major subjects at degrees of University of Mumbai	
B. Sc.	<ul style="list-style-type: none">☞ Physics.☞ Mathematics.☞ Statistics.☞ Chemistry.☞ Botany.☞ Zoology.☞ Information Technology. *☞ Bio-technology *☞ Microbiology*☞ Computer Science *
M .Sc. (By papers)	<ul style="list-style-type: none">☞ Organic Chemistry☞ Information Technology*
M.Sc.(By research)	<ul style="list-style-type: none">▪ Zoology▪ Organic Chemistry,▪ Physical Chemistry▪ Botany.
Ph. D.	<ul style="list-style-type: none">▪ Zoology,▪ Botany,▪ Chemistry.
College offers following courses of YCMOU	
<ul style="list-style-type: none">• B. L.I. Sc.	
<ul style="list-style-type: none">• M. L.I. Sc	
<ul style="list-style-type: none">• Diploma in Journalism	

* denotes self financed courses.

Distance Education: Our IT department is PCP (Personnel Contact Program) centre for F. Y. B. Sc., S.Y. B. Sc & M .Sc courses of Institute of Distance & Open learning from University of Mumbai. Our teachers from Zoology department are recognized as guide for M.Sc. Ph.D. degree from YCMOU and our teachers from zoology and chemistry departments are recognized as guide for M.Phil. degree from Allagappa University.

1.2.2 Give details on the following provisions with reference to academic flexibility, value addition and course enrichment:

Subject Options Available of University of Mumbai. (Undergraduate)

F. Y. B. Sc.		S. Y. B. Sc.		T.Y. B.Sc
Three subjects with Foundation Course	Information Technology*	Two subjects with Foundation Course	Information Technology*	Single major subject
Physics, Chemistry Mathematics		Physics, Chemistry		Physics & Electronic Instrumentation
Physics, Mathematics Statistics		Physics, Mathematics		Mathematics & Computer Programming and Systems Analysis
Chemistry, Botany Zoology		Mathematics, Statistics		Chemistry & Drugs and Dyes
		Botany Zoology		Zoology & Fishery Biology
		Chemistry		Statistics, & Operations Research
		Chemistry, Botany		Botany & Horticulture
		Chemistry, Zoology		Information Technology*
Physics, Mathematics Comp. Science*		Chemistry, Bio-technology *		Biotechnology *
Chemistry, Zoology Biotechnology*		Chemistry, Microbiology *		
Chemistry, Zoology Microbiology *		Mathematics, Comp. Science*		

* Denotes self financed courses.

Computer Science and Microbiology subjects are introduced at F.Y. B.Sc. level in the

year 2008-09; so as continuation these subjects for T.Y. B.Sc. level will be introduced from academic year 2010-11.

c) Add on courses: Zoology department conducts certificate course in Bio-informatics and certificate course in Gardening is conducted by Botany department.

In our campus we have VPM's I.T. centre and VPM's centre for foreign language studies. At VPM's I.T. centre CCIT, CCP, WPD, MSCIT courses are conducted. Certificate Courses in Japanese, French and German are conducted by VPM's centre for foreign language studies. At Advanced Study Centre diploma courses in Analytical chemistry, Applied Statistics, Horticulture and Regulatory affairs are conducted in the evening.

d) Interdisciplinary courses: Foundation Course Paper I at F.Y.B.Sc.level and Paper II at S.Y.B.Sc. level, have an interdisciplinary approach. Science students are introduced to several topics from History, Geography, Economics, Sociology, Philosophy, Psychology, and Politics etc.

e) Flexibility to the students to move from one discipline to another: Flexibility can be provided only within the parameters of the guidelines set by the University. As such, students cannot move from one discipline to another. There is no provision for credit transfer in the present system.

f) Flexibility to pursue the programme with reference to the time frame (flexible time for completion) : As the college has to follow the University rules, syllabi and the constraints of its academic programme, the college can offer little flexibility to the students. However, the examination cell conducts an additional examination within one month of term-end examination, especially for those students who could not attend the regular examination due to genuine reasons.

1.2.3 Give details of the programmes and other facilities available for international Students (if any)

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Programmes : As above

Other Facilities : The college has not enrolled any International student. If any student will approach for enrolment, the college shall definitely provide necessary facilities

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

Yes. Our college offers following self financed courses.

In case of the courses affiliated to the University the aspects like admission curriculum, fee structure, teacher qualification are in accordance with the guidelines and rules of University /UGC.

Sr.No.	Course	Duration	Course Fee	Admission
1	B.Sc (I.T.)	3 yrs.	Rs. 68,020/-	On merit
2	B.Sc. (Biotechnology)	3 yrs.	Rs.109,200/-	On merit
3	B.Sc (Computer Sc.)	3 yrs.	Rs. 72,000/-	On merit
4	B.Sc. (Microbiology)	3 yrs.	Rs. 72,000/-	On merit
5	M.Sc (I.T.)	2 yrs.	Rs. 50,000/-	On merit

The prescribed fees are returned back to concession holders once we get the amount from the government.

Salary: For fully qualified teachers salary is paid as per government scale otherwise it depends on qualification and experience of the teacher. This is higher than that prescribed by the Government for teachers who have not completed NET/SET.

Aided courses:

Sr. No.	Course	Duration	Course Fee	Admission
1	B.Sc	3 yrs	Rs.13,160/- for regular Rs. 2,775/- For concession holders	On merit
2	M.Sc (Chemistry)	2 yrs	Rs. 10,760/-	By university

These courses are affiliated to the Mumbai University. The aspects like admission, curriculum, fee structure, teacher qualification are in accordance with the guidelines and rules of University.

In other Add on courses viz. certificate course in Bioinformatics and Gardening, the curriculum is designed by the college keeping in view the specific objectives and the local need. As far as admissions of Add-on Courses are concerned they are open for students from all faculties. Fee structure is so designed that affordability shall remain the focal point.

Introduction of self-financed courses and add-on courses is an effort towards the design and implementation of need based and job oriented courses.

1.3 Feedback on Curriculum

1.3.1 How does the college obtain feedback on curriculum from

a) Students?

Informal feedback is received from the students through the Students' Council, meetings of other associations, and farewells, where the teachers interact more closely with the students. Students also give feedback through Suggestion Boxes. Students fill in feedback forms expressing their response to the teaching and overall administration. In mentor forms, the separate column is provided for suggestions.

b) Alumni?

Informal feedback is received from the Alumni when they visit college or through Past

students' association "Anubandh"

c) Parents?

Feedback from parents is obtained during parents' meeting. Frequent parent teacher meetings are organized by each department to discuss various issues regarding student's attendance, discipline, examination pattern, study tours, certificate courses, other facilities and academic performance of T.Y. B. Sc. Students. The meetings with parents of students of F.Y. B.Sc. & S.Y. B.Sc. classes are arranged at the end of the first term.

d) Employers / industries?

We have placement cell, we get the feedback from employers when they visit our college for placement.

e) Academic peers?

Though the University designs the teaching programmes, our staff members who are members of Boards of Studies, Syllabus Committees and Faculties are key persons who influence the changes at the University level.

f) Community?

Parents are the representatives of the community; feedback from parents is taken during parents meetings.

(For feedback forms refer Annexure Nos. 1, 2, 5, 6, 7)

1.3.2 How is the above feedback analyzed and the outcome / suggestions used for continuous improvements, and communicated to the affiliating university for appropriate inclusion?

Though the University designs the teaching programmes, our staff members who are members of Syllabus Committees and Faculties convey the feedback analysis to the University. If any informal /formal meetings are arranged by Board of Studies prior to the syllabus change, our teachers attend the meetings and actively participate.

1.4 Curriculum update

1.4.1 What is the frequency and the basis for syllabus revision and what are the major

revisions made during the last two years?

University designs the teaching programmes & revision of the syllabus. Generally syllabi are changed once in five years. During the academic year 2008-09 F.Y. B.Sc syllabus was revised and implemented, in continuation to that new S.Y.B.Sc. syllabus is implemented in the academic year 2009-10.

1.4.2 How does the institution ensure that the curriculum bears a thrust on core values adopted by NAAC?

IQAC is the body that monitors the inclusion and thrust on the core values of NAAC in curriculum designed at college level. Every year the conducted activities are audited and improvements are made in the successive years. With the Revised syllabi which are done at the University level, core values like global competency, promotion of use of ICT and inculcation of value system are given substantial attention.

The College has introduced several new courses keeping in mind the requirement of market forces, e.g. B.Sc with Information Technology, Biotechnology, Computer Science, Microbiology, M. Sc. with Information Technology & Ph. D in chemistry.

We launched a Certificate Course in “**Basic Bioinformatics**” through Zoology department and certificate course in **Gardening** through Botany Department.

Our college is a centre of the Yashwantarao Chavan Maharashtra Open University.

Our management has started **Foreign Language Center**, to teach foreign languages and cultures to our students. VPM’s I.T. centre conducts various part time certificate courses in information Technology.

1.4.3 Does the institution use the guidelines of statutory bodies (UGC/ AICTE / State Councils of HE and other bodies) for developing and/or restructuring the curricula?

Yes. The University prepares all the curricula according to the directives of the UGC.

And college follows the guidelines prescribed by UGC and affiliating Universities

1.4.4 How are the existing courses modified to meet the emerging/ changing national and global trends?

The University modifies old courses from time to time and new courses are introduced. As members of the syllabus committee teachers actively participate in deciding courses and syllabi. In addition, teachers bring in new aspects of the subjects to suit the student requirements. There are field visits, projects, paper presentations and Seminars to widen the horizons of the students. Students actively participate in all these programs.

1.5 Best Practices in Curricular Aspects

1.5.1 What are the quality sustenance and quality enhancement measures undertaken by the institution during the last five years in curricular aspects?

- ⊕ Internal Quality Assurance Cell (IQAC) has been constituted to analyze and monitor the growth and inspire the faculty members for quality sustenance and enhancement measures to be undertaken by the departments.
- ⊕ Academic calendar is prepared in consultation with colleagues. The teaching plan is developed and same is followed by all concerned. The Heads of the Departments assess the academic performance in their monthly meetings.
- ⊕ Principal reviews academic progress in meetings with heads and faculty members.
- ⊕ Through regular interface with the Students' Council, grievances if any regarding academic needs are discussed and action is taken to attend to the needs.
- ⊕ On the basis of students' feedback, teachers modify their teaching to improve learning ability and hence knowledge and quality of students.
- ⊕ Teachers and students are encouraged to attend Workshops/Seminars and also for research.

1.5.2 What best practices in 'Curricular Aspects' have been planned/ implemented by the institution?

- √ To cope up with global competencies many new graduation and post graduation

courses have been started.

- √ Certificate courses in Bio-informatics have been conducted.
- √ Diploma course in Journalism (YCMOU) is added course.
- √ New well equipped Bio-tech laboratory has been set up. New Computer laboratory with 40 computers is constructed. Microbiology laboratory is under construction. Renovation of chemistry research lab is going on.
- √ In our campus Foreign Language centre is started.
- √ To cater the need of present era our management has started I.T. Centre where various diploma & certificate courses are conducted.
- √ College has applied for Environmental Science Course and waiting for approval.
- √ Weak students are provided special coaching and intensive coaching is provided to bright students.
- √ Some departments prepare study material and question banks with synoptic answers.
- √ Presentation competitions are organized for the students.
- √ Regular interaction is held with all stakeholders and immediate actions are taken to resolve academic grievances.
- √ Seminars/ Workshops are arranged in the college.

We are always eager to introduce new courses as per the need of current era and to develop the required infrastructure. All the above practices aim at the students' overall development which is also the objective of education imparted in our College as a whole.

For Re-accreditation:

1 What were the evaluative observations made under Curricular Aspects in the previous assessment report and how have they been acted upon

The evaluative observations made under curricular aspects in the previous assessment report are:-

Allow provisions for students in various courses to attend part-time certificate courses in allied subjects along with their regular studies to boost their placement potential.

Action taken:

- i. A Certificate Course in “Basic Bioinformatics” through Zoology department and certificate course in Gardening through Botany Department are conducted.
- ii. Our management has started Foreign Language Center, to teach our students foreign languages.
- iii. In our campus at VPM’s I.T. centre CCIT (certificate course in Information Technology), CCP (Certificate course in Computer programming), WPD (certification course in Web- Designing), MSCIT (Maharashtra state certificate course in information Technology) courses are conducted.
- iv. At Advanced study centre diploma courses in Analytical chemistry, Applied Statistics, Horticulture and Regulatory affairs are conducted in the evening.

2 *What are the other quality sustenance and enhancement measures undertaken by the institution since the previous Assessment and Accreditation with regard to Curricular Aspects?*

- We arrange National Seminar/State level Seminar every year, prior to this Seminar two Workshops are arranged to educate the students. Teachers encourage students to participate in these events.
- Our teachers participate in various Seminars/Workshops to update their knowledge.
- Academic calendar is prepared and strictly followed.
- Classes for Yoga and Meditation are organized to enable students to face life with greater calm and composure and to take the right decisions.



"Thane Gaurav Puraskar" To Principal



Our Tradition: Saraswati Poojan"

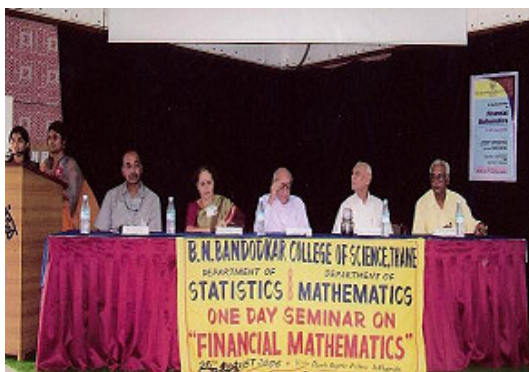


Curious Students

Criterion II



Poster Presentation



Criterion II: Teaching – Learning and Evaluation

“We must give more attention to the interplay between the science of teaching - pedagogy - and the art of teaching... A teacher must be anchored in pedagogy and blend imagination, creativity and inspiration into the teaching learning process to ignite a passion for learning in student.” In teaching learning and evaluation process, our college does deliberate, continuous and cognizant efforts for personality development, value and moral enhancement, keeping students’ welfare in mind. This process is aimed at imparting quality education in science and it emphasizes on moulding students into socially aware citizens. The process is planned according to the calendar made by the college and is executed and controlled with sincerity and dedication by the students and teachers. We use innovative learning methods such as use of OHP, LCD Projector, Slide projector, CDs, arrangement of excursions, industrial visits and students’ participation in Seminars and Workshops. We encourage students to undertake “mini research projects.” Our teachers maintain cordial relation with students so that they are eager to attend the lectures regularly. To keep pace with recent global developments we have started many self-financed courses. Internet is made accessible to all, free of cost and on line journal facility J- STOR is made available in the campus/on our website. Campus of our institute is made Wi-Fi. Our management is always in the forefront in providing the best possible facilities to students and teachers so that they excel in their academic career as well as emerge as responsible citizens of India.

The college has workout strategy for the faculty and the students for improvement in the teaching-learning process:

1. Increasing the interaction period between the students and the faculty.
2. Monitoring attendance rigorously and striving for excellence.
3. Developing a craving for quality and co-operation among the students.
4. Using active learning techniques.
5. Employing systematic feedback mechanism.
6. Emphasizing on completion of tasks within stipulated time.

7. Communicating and inculcating urge of higher goals in the students.
8. Welcoming diverse talents and different methods of learning.

2.1 Admission Process and Student Profile.

2.1.1 How does the institution ensure wide publicity to the admission process?

Our college is the most preferred institute in Thane and nearby areas. We have to follow the specific procedure given by University of Mumbai. Our admission procedure is online for the last four years.

- a. Prospectus: It clearly indicates subjects offered, fee structure, admission process, facilities provided and rules and regulation for discipline.
- b. Institutional Website: It gives the information about complete admission process.
- c. Advertisement in Regional / National Newspapers: Available courses are advertised in Newspapers.
- d. Any other (specify): Flex boards indicating information about various courses are displayed near college entrance one week prior to the commencement of admission process.

2.1.2 How are the students selected for admission to the following courses? Give the cut off percentage for admission at the entry level. a) General b) Professional c) Vocational UG Admissions.

- Admissions of F.Y.B.Sc., S.Y.B.Sc. and T.Y.B.Sc. classes are given as per the university guidelines.
- Reservation policy of government is strictly followed.
- The in-house students are admitted with preference only for general courses.
- Students are selected on merit basis, for self-finance courses.
- Total marks in HSC and marks scored in the subject of Mathematics are considered for F.Y.B.Sc. I.T. admissions.

PG admissions.

B. N. Bandodkar College of Science, Thane

- Admission to Post graduate courses are given according to prescribed norms of University.
- For chemistry, 70% students are admitted by Mumbai University from all colleges affiliated to the University and 30% seats are reserved for students of college, admissions for which are on merit basis.
- M.Sc.I.T. admissions are given on merit basis.

Cut off percentage for 2008-2009 for these courses is as follows:

Category	UG F.Y.B.Sc.							PG M.Sc I	
	Aided			Unaided (* Marks In Maths)				Aided	Unaided
	CBZ	PMS	PCM	I.T.*	Comp.Sc.	Biotech	Microbio.	Chem	I.T.
Open	42.8	41.3	39.80	88	49.16	51.80	43.30	64.75	54.25
SC/ST	41.5	38.83	35.00	35	41.66	44.33	61.00	73.12	63.41
Other	40.67	41.83	39.16	60	48.50	39.16	50.80	58.25	65.38

C- Chemistry, B-Botany, Z-Zoology, P-Physics, M-Mathematics, S- Statistics

2.1.3 How does the Institution ensure transparency in the Admission process?

100% transparency is ensured in admission process.

- Teachers from all departments are involved in admission committee.
- On-line admission forms are available on college website.
- Merit lists with total marks are displayed on college notice board.
- Fee structure is given clearly in the college prospectus.
- Fee receipts are given immediately after payment of the fees.

2.1.4 How do you promote access to ensure equity?

While giving admissions to the students, all the Government and University rules

for reservations are taken into account. According to Government norms percentage for various groups are as follows: ST-07, SC-13, VJ/NT-11, OBC-17, SBC-02, Differently-abled, Employees on transfer-05, and Sports personnel -02

- Among admitted students it can be noticed that almost 50% of the students are girls.
- EBC free ship is given to eligible candidates as per rules. Those who are not eligible for EBC free ship but are unable to pay full fees are allowed to pay the fees in installments. Such students are also offered financial assistance from Students' Welfare Fund. Faculty members also help the students at personal level.
- Economically backward but deserving students are issued books under Book Bank scheme.

2.2 *Catering to Diverse Needs*

2.2.1 *Is there a provision for assessing the students' knowledge and skills before the commencement of the programme? If yes, give details on the strategies of the institution to bridge the knowledge gap of the incoming students for enabling them to cope with the programme to which they are enrolled.*

- The subject combination that a student has offered at entry level is to some extent indicative of his/her inclination.
- At the commencement of teaching, teachers normally have intensive interaction with the students in the classroom that enable them to decide the academic competence of the class. Teacher modifies teaching method according to the understanding of students.
- Initially few lectures are engaged for teaching basics of the subjects.
- Practical sessions also help in personal interaction between students and teachers and clearing subject related queries if any.

2.2.2 *How does the institution identify slow and advanced learners? Give details on the strategies adopted for facilitating slow and advanced learners.*

- ❖ Teachers normally have intensive interaction with the students in the classroom, which enables them to decide the academic level of the students.
- ❖ Teachers' judge slow and advanced learners through class tests and Seminars.
- ❖ Personal attention and guidance is given to slow and advanced learners inside as well as outside the class. Teacher modifies his/her style of teaching to make it suitable for students' requirements.
- ❖ Practicals, project work, excursions are also helpful in making the process of learning more interesting.

For advanced learners,

- Teachers provide many opportunities for independent study and also encourage them to give presentations/Seminars based on their reading.
- Additional reference books are recommended
- They are selected for various mini projects.
- They are encouraged to participate in various intercollegiate quiz and other competitions.
- Special guidance is given to them for participation in various competitive examinations like M. T. T. S. (Mathematics Training and Talent Search), I.I.T. entrance Examination, Olympiad, CAT, M.Sc. entrance etc.
- Visits to industries and research institutes are arranged as career guidance.
- They are encouraged by giving endowment prizes.
- I.T.department helps students for certification courses like Java certification of Sun Microsystems. Additional books from a library, and special guidance lectures by faculty are provided to such students.

For slow learners,

- Practice sessions or extra lectures are conducted.

- Mentor teacher pays more attention to such students.
- Question bank and model/ synoptic answers are provided and periodic tests are conducted.
- Parents-Students-Teachers meetings are conducted for motivation and guidance.
- They are advised to join Yoga training so as to become physically and mentally active.

2.2.3 Does the institution have a provision for tutorials for the students? If yes, give details.

- ◆ In mathematics, weekly tutorials are conducted for the students.
- ◆ There is an internal assessment examination of 20 marks for F.C. Paper – I, introduced from the academic year 2007-08 which includes tutorial as one of the components.
- ◆ For I.T. course there is an internal assessment of 40/50 marks for each paper.

2.2.4 Is there a provision for mentoring of students or any similar process? If yes, give details.

- Institute provides mentor system for students of all classes. In the beginning of the year every teacher is allotted 25/30 students of his subject. He/she works as mentor for them.
- Every student is asked to fill up a personal data form. Mentor-Teacher arranges personal meetings with the students where he/she guides the student in study as well as helps him/her in solving personal problems if any. (Mentor form is attached separately)

2.2.5 How does the institution cater to the needs of differently-abled students?

- We do not have any special provision for differently-abled students. Generally such students do not opt for science courses.

- There is provision in University examination rules to allot extra time for handicapped students or to allow writer during examination, on producing proper certificate. Special seating arrangement is made for such students.

2.3 Teaching -Learning Process

2.3.1 How does the institution plan and organize the teaching-learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

- Academic calendar of institution is prepared in the vacation itself so that it is available from the beginning of every academic year. Calendar displays dates of all academic events like i) College reopening after every vacation ii) Examinations iii) Annual results iv) Admissions v) Conferences, Workshops and Seminars details vi) Duration of first / second term vii) Extracurricular events-like Club activities of all departments, Annual social days, Sports days and also number of teaching days and holidays.
- All academic and extra curricular activities are organized and completed as per the schedule with the support of teachers, non-teaching staff and students.
- In the beginning of academic year, HOD conducts departmental meeting for distribution of work and timetable. It is mandatory for teachers to submit timetable along with the teaching plan for the academic year and to follow it religiously.
- F.Y.B.Sc and S.Y.B.Sc. Examinations are conducted by institution but University decides pattern of the question paper and evaluation. All institutions affiliated to University of Mumbai follow a common pattern of evaluation.
- Examination timetable is displayed on student notice boards well in advance.
- Syllabus, paper pattern is communicated to the students well in advance.
- Synoptic answers together with the scheme of marking of question papers are prepared to ensure uniformity and objectivity in assessment.
- Papers assessed by examiners are moderated by senior faculty members / senior teachers from neighboring Colleges.

- Results are made available to the teachers for analysis and necessary action.
- Results are declared within 45 days after conduction of the examinations.

2.3.2 *What are the various teaching- learning methods (lecture method, interactive method, project-based learning, computer-assisted learning, experiential learning, Seminars and others) used by the teachers? Give details.*

- The Principal method of teaching is “lecture method” where students and teachers can directly interact with each other. Topics difficult for understanding are repeated; the teacher clears doubts immediately.
- Most of our theory lessons are assisted by practical, which are based on the theory, where the students get opportunity to discuss their difficulties in the subject, directly with the concerned teacher.
- Models, charts, and specimens are used to supplement the lecture method.
- Institution has provided computer with free Internet connections to all departments.
- Teachers use this facility for updating their knowledge. They make subject more interesting by showing CDs and DVDs related to the subjects. Over Head Projector (OHP) is used for making subject easy for understanding in some subjects like Mathematics.
- In addition to this, teacher suggests certain topic to the students for Seminar where students are asked to read and collect the relevant material and present it in the class room. Seminar is followed by discussion related to the topic. This helps in developing confidence amongst the students.
- For Foundation course and I.T., project work is a compulsory part in the syllabus to be performed by every student.
- Other than this, groups of 4 to 5 students do the project on social issues, which are presented in “Mini research Project” booklet that is compiled yearly.
- Group discussions are also held in T.Y.B.Sc. Classes.
- Students are motivated to read reference books from library for getting additional

information.

- Occasionally we conduct viva-voce. Viva-voce is compulsory for practical examinations in Zoology, Botany, Chemistry and Statistics.
- Different departments organize visit to industries and research institutes.
- We arrange excursion for the students from Botany and Zoology departments, where students get field experience and freedom to interact with the teachers.
- I.T. students visit industries to do their projects.
- Students' participation in the outreach activities is intentionally encouraged since such participation imparts learning in the fundamental concepts through applications.
- The academic deliberations on values like equality, co-operation, tolerance, patriotism, generosity, truth, justice and excellence are promoted during classroom sessions. In addition, during other activities like Sports, NCC and NSS, deliberate efforts are made to educate the participants about human values informally. During value education it is always emphasized that these values should become the way of our life. It is engraved in the minds of the students to care for the people and environment above self, which will make them good citizen of this country with integrity and commitment.
- The overall effect of all these teaching-learning strategies has resulted in a remarkable quantitative and qualitative growth in the college academic results of the University examinations in the last five years. The following figures illustrate the point.
 - i) The average of the T.Y.B.Sc. Result of the college over last five years is 87% as against the University average result 67.85. The college result is consistently above the university result by at least 10%.
 - ii) The % of students securing first class is also 49.50 % of the total number of students passing.
 - iii) Our merit holders:

a) in year 2004-05, are

- *Ms Pranali Gaonkar* stood 2nd in merit list of B.Sc -Zoology.
- *Mr. Nitin Katake* stood 1st among reserved category B.Sc. Mathematics students.
- *Ms Mayuri Sawant* stood first in Journalism course conducted by YCMOU

b) In the year 2007-08 following students excelled at B.Sc. Examination.

- *Mr. Milind Kokate* stood 1st in Statistics and 2nd in general merit list.
- *Mr. Abhishek Rane* 1st rank in Zoology.
- *Ms.Sonal Salvi* secured 3rd rank in Zoology.
- *Ms.Umalaxmi Birajdar* stood 2nd in the Mathematics.

➤ This entire result is encouraging if taken into consideration the lower cut off percentage of 35% at the entry level. It is the impact of patient, determined and unremitting efforts of the faculty with strategic variations of the methodologies to suit learner's ability.

2.3.3 *How learning is made student-centric? What are the institutional strategies, which contribute to acquisition of life skills, knowledge management skills and lifelong learning?*

➤ The learning is made student centric by adopting variations in teaching methods suited to the learning abilities of the students. In the classes where the strength is more, the

lectures are delivered with the aim that average student will be able to assimilate the concept. It is always seen that institutional strategies help in overall development of students by achieving better knowledge. We always plan our activities to mould our students so that they can face this competitive world boldly.

- It is always seen by faculty that lecturing method suits to the level of understanding of the student. On demand, teachers conduct revision lectures for slow learners.
- Innovative methods like use of LCD, OHP, CD are used by teachers to make the subject more interesting.
- Yearly Conferences / Seminars/Workshops are arranged for students.
- Informative lectures by experts from reputed institutes are arranged for students to get better knowledge about various innovative fields.
- Long and short excursions form a part of our syllabus. Excursions develop the feeling of togetherness, obedience, discipline, and ability to adjust and share and in general broaden vision of students. Excursions help to develop healthy and intimate relation between the students and teachers.
- Visits to Industries and research institutes help students to know much about upcoming technologies in the subjects and in career guidance after graduation.
- We arrange programme on Stress Management for the students through women cell.
- Yoga classes for students are conducted to keep them mentally and physically fit.
- We follow the practice of conducting A.T.K.T. examinations in the month of August to improve results and to reduce stress on the student.
- We provide “Mentor system” which helps to solve students’ difficulties and give them personal guidance.
- Library remains open from 7.00 a.m. to 8 p.m. throughout the year. One month prior to examination it is also open on Sundays and public holidays.

- Students learn to cope with social issues through NSS activities.
- Students are encouraged to join NCC which teach them to become good citizen and which inculcate feeling of national pride and unity.
- We publish yearly magazine, which is a good platform for the students to express their views, which also improves their writing skills.
- We encourage our students to take research projects in different subjects and compile these projects in the form of “Mini Research Project”
- College has built up jogging track along ‘Jnanapath’, which is regularly used by students to increase the stamina and fitness.
- All teachers personally see to it that attendance of students is nearing to 100%. Periodically defaulter’s list is displayed and parents are informed about poor attendance of their wards.
- Our college is associated with Vivekanand Kendra, Thane branch. The thoughts of Swami Vivekanand are conveyed to students through display of posters and books.
- All academic and extracurricular activities are planned, organized and controlled by students under the guidance of teachers through which they learn discipline, performing skills and management which is nothing but life long learning of event management.

2.3.4 *How does the institution ensure that the students have effective learning experiences? (Use of modern teaching aids and tools like computers, audio-visuals multi-media, ICT, CAL , Internet and other information /materials*

We have various modern facilities in our college. This helps us to carry out our teaching programmes more effectively.

- The College has total of 154 computers, 22 thin clients, 2 Laptops, 6 LCD projectors, a slide projector, 6 scanners, 18 printers and 3 OHPs. We use these facilities regularly.
- Computers with free Internet facility are available in all departments, library and college office.
- In some departments like Chemistry, Zoology and Botany, CDs related to subject topics are shown to the students
- T.Y.B.Sc (Statistics) students use TORA package to solve their statistical problems. F.Y. B. Sc students use MS-Excel for solving problems.
- In the subject Zoology, Biotechnology topics like Biostatistics, Bioinformatics are to be learnt with the help of computers and students have to submit reports at the time of examination.
- T.Y. B.Sc Mathematics students use 'Mu-Pad' package for practicals.
- T.Y. B.Sc Physics students learn C++ programming language.
- T.Y.B.Sc Chemistry students use computers for the analysis of data during Practicals.
- While studying the topic Zoogeography, students collect information about various sanctuaries and national parks from various websites available on Internet.
- Our Zoology research students use MS-Excel (data analysis tool)/Statistical analysis package-Minitab for data analysis.
- Our research students use e-journals like database J-STOR which is made available on our website.
- Campus of our institute is made Wi-Fi.

2.3.5 *How do the students and faculty keep pace with the recent developments in the various subjects?*

- Internet facility is available free of cost for students and teachers. They make use of this facility to update their knowledge. Our campus is Wi-Fi.
- Subject related Conferences and Seminars are arranged by college as well as by other

institutes of VPM in our campus for students and faculty.

- Department clubs arrange lectures of renowned personalities that help in gaining knowledge.
- Teachers and students are also encouraged to attend Seminars and Workshops arranged by our college as well as other colleges. Our students participate in quiz competitions; paper presentations in other colleges and University level competition 'Avishkar'.
- College library is updated with many national and international journals.

2.3.6 *Are there departmental libraries for the use of faculty and students? If yes, how effectively are they used for the enhancement of teaching and learning?*

I.T., Biotechnology, Microbiology and Zoology department have departmental libraries where subject related books, textbooks and reference books are kept. T.Y.B.Sc. students make use of these libraries. Students or lab assistant maintains record. For I.T. department we have appointed a separate Assistant librarian. College has an efficient central library, which is fully computerized. Many departments issue subject related books at the beginning of year from central library and make them available to the students in the department. We also have book bank facility for the students

2.3.7 *Has the institution introduced evaluation of the teachers by students? If yes, how is the feedback analyzed and implemented for the improvement of teaching?*

- Our institute-introduced evaluation of teacher by students from year 2004-05. This assessment was executed for every teacher except for the year 2007-2008.
- The students are asked to fill a specially drafted form with a questionnaire.

Feedback form is attached in the Annexure 6

- Each question is based on five-point scale and students are asked to judge teachers by giving specific points.
- Teachers are asked to do self-analysis and submit the report with remedial measures to the Principal. Teachers who score less than 60% marks in specific question / s are called personally by the Principal and suggestions are offered as remedial action.
- Our students fill students' opinion forms for non-teaching staff of the departments, office as well as library. Principal takes remedial actions after analysis.

2.4 Teacher Quality

2.4.1 *How are the members of the faculty selected? Does the college have the required number of qualified and competent teachers to handle all the courses? If not, how does the institution cope with the requirements?*

Due to Superannuation or voluntary retirement of teachers, vacancies are generated. New teachers are appointed so that college has required number of qualified and competent teachers to handle all the courses. The selection and recruitment of the teaching staff is done by following the University, U.G. C., and Government prescribed norms.

The procedure is as follows;

- The college has to get permission from the Jt. Director of Higher Education, Govt. of Maharashtra, after updating of the roster to fill the vacancies.
- After getting NOC from Jt. Director, the college prepares the draft of the advertisement and gets it approved from the University.
- The advertisement is published in national newspapers indicating vacancies.
- The selection committee is constituted as per the University norms.
- The panel interviews of the eligible candidates are held giving them due notice.
- The management appoints selected candidates.
- The college has to get approval for these appointments from the University.

- We have 18 Ph.D. 14 M.Phil. and 5 NET/ SET cleared teachers.

2.4.2 How does the college appoint additional faculty to teach new programmes/ modern areas of study (Biotechnology, IT, Bioinformatics etc.)? How many such appointments were made during the last three years?

The selection and recruitment of the teaching staff for unaided courses is done as per the University and Government rules. Interviews are taken by governing body. The management pays salary if candidate fulfills required qualification for the post; he/she is entitled to get salary according to Government norms after two/three years of experience with this institute. If the candidate is not fully qualified he/she is appointed on contract basis with a consolidated salary, which is higher than the salary prescribed by the government.

Our management has appointed full time Coordinator for Biotech & Microbiology courses.

The appointments for last 3years are as follows:

Year	Department	No. Of Faculty Members Appointed.
2006-07	I.T.	4
2007-08	I.T. +Biotechnology	4 + 2
2008-09	I.T. / Comp Sc + Biotech / Micro-Bio	5 +4

2.4.3 What efforts are made by the management for professional development of the faculty? (eg: research grants, study leave, deputation to national/ international Conferences/ Seminars, training programmes, organizing national/ international Conferences etc)? How many faculty have availed these facilities during the last three years?

Management always encourages faculty to arrange and attend Conferences and Seminars.

- Study leave is granted for such faculty development programmes. Whenever teacher applies for study leave (FIP), due consideration is given.
- With the aim of quality enhancement, 12 teachers secured Ph.D., 14 teachers received M.Phil. while in service.
- Duty leave is granted for attending refresher courses, orientation courses, syllabus related Seminars or Workshops.
- Management deputs teachers for international or National training programmes.
- Every year we arrange National Seminar/Conference. Prior to this two preparatory Workshops are arranged.
- Management provides seed money for Conferences, Seminars and Workshops arranged by faculty. With this encouragement of management it is possible for institution to conduct at least one Seminar or Conference every year and two Workshops related to that Seminar/Conference.
- In addition to this, management also encourages faculty and students to attend Conferences, Seminars and Workshops arranged by other institutes in our campus.
- Proceedings of all these Conferences/ Seminars are made available on Website of the Institution.

I) Number of Conferences, Seminar, Workshops conducted by Institution in last 3 years

Year	2006-07	2007-08	2008-09
Seminars	1	1	1
Workshops	3	5	1
Conferences	1	-	-
Total	5	6	2

- Apart from this Certificate course in 'Bioinformatics-Basics' was conducted every year from 2007 in two batches through Department of Zoology and course on

‘Indoor Gardening’ was conducted by Botany Department in year 2007.

- One-day Workshop was arranged for office staff to get acquainted with ‘Thin Client technology’, which is newly installed in the office. Mr. A. A. Kale, Coordinator of I.T. Department worked as an Expert for the same.

II) Number of faculty improvement programmes attended by our faculties in last 3 yrs.

Course	2006-07	2007-08	2008-09
Refresher	06	05	01
Orientation	01	02	03
Seminar	54	09	37
Workshop	54	50	59
Conference	34	44	10
Total	149	110	110

III) In the year 2007-08, **six** Non Teaching staff members attended various Workshops.

All office staffs attended special Workshop on thin Client technology.

IV) Number of papers presented

		2006-07	2007-08	2008-09
Aided	Papers	02	04	03
	Teachers	01	02	03
Unaided	Papers	01	-	03
	Teachers	01	-	01

V) International Conferences/Seminar

➤ Dr. N. S. Tekale

- ◆ Was invited to present a paper titled “Approach of Satyagraha for Protecting Tribal Civil Rights in India – A success story” at a Conference organized by the Durban Municipal Body **South Africa** and Gandhi Development Trust to commemorate the 100th anniversary of Satyagraha from September 11 to 13, 2006 at Fred Crookes Sports Centre at **Durban University of Technology**.
- ◆ Was also invited for Oral Presentation by Unite for Sight’s Health Conference at

Stanford University, School of Medicine California, USA on April 13 -15, 2007.

- ◆ Delivered a lecture on 'Eye care services to Malnourished Tribal Children in tribal belt of Western part of India – a success story' at Unite for Sight's Conference at Stanford University, USA on April 14-15, 2007.

2.4.4 Awards and Recognitions received by the faculty during last five years

Name Of The Faculty	Name Of The Department	Details of Awards Received Details	Number Of Recognitions
Prin. Dr (Mrs) M.K.Pejaver	Zoology	“Thane Gourav Puraskar”	15
Dr. (Ms.) M. S. Mulgaonkar	Botany	i. Certificate of appreciation from the Orchid Society of India. ii. Fellow of Mendellian academy of Science	01
Dr. N. S. Tekale	Botany	-	02
Dr. (Ms.) N. N. Patil	Zoology	-	01
Dr .M.N. Nyayate	Physics	-	01
Dr. M. J. Kolet	Botany	i. GOI NCC long service medal ii. Special award by DY. DG. NCC	01
Dr. (Ms.) M. Saha	Botany	-	01
Mr. P. G. Bamane	Chemistry	Manav Seva Puraskar for Social Service	
Dr (Ms) K.D. Phal	Statistics	Ph .D. Degree	
Ms.M.T.. Wankhede	Mathematics	i. “Mahatma Jyotiba Fule Shiksha Award” for ideal teacher ii. “Waman Dada Kardak Award” as Adarsh Gungaurav Puraskar	
Dr. (Ms) P. N. Kurve	Zoology	Certificate of Appreciation from Dept. of Sc.& Tech. GOI	
Dr. Kiran Pariya	Zoology	Ph. D degree	
Mr. Abhijeet A. Kale	I.T.	M. Tech. (I.T.) Degree	02

2.4.5 How often does institution organize training programmes for the faculty in the use of?

a) Computers:

1. Our I.T. department is always ready to give personal training related to computer to faculty as and when required.
2. A Workshop was organized on Linux by IT department on 1st October 2005
3. Two days Workshop on 'Linux Training Programme' for Faculties was conducted by Department of Information Technology on September 15-16, 2006

b) Computer-Aided Packages:

One-day Workshop was arranged by IT Department for office staff to get acquainted with 'Thin Client' technology, which is newly installed in the office.

2.5 Evaluation Process and Reforms

2.5.1 How are the evaluation methods communicated to the students and other institutional members?

- ✓ Scheme of examination and evaluation methods are communicated to the students and parents through the prospectus at the time of admissions and during parent's meetings.
- ✓ Tentative dates and month of term end and preliminary examination are notified in college calendar at the beginning of academic year.
- ✓ The pattern of examination and papers is explained by subject teachers in the classrooms as well as displayed on the notice board well in advance.
- ✓ On behalf of University, College does evaluation, for F.Y.B.Sc and S.Y.B.Sc Classes but University decides the pattern of examination and setting of Question paper.
- ✓ The annual theory and practical examinations for T.Y.B.Sc. are conducted by the University.
- ✓ University sends timetable of these examinations well in advance. It is displayed on the students' notice board in the college as well as on University website.

2.5.2 *How does the institution monitor the progress of the students and communicate it to the students and their parents?*

- The student's performance for F.Y. and S.Y.B. Sc. classes is monitored by term end examinations conducted according to norms of University.
- Practical examination is taken at the end of the academic year.
- The papers are assessed in the college by centralized assessment.
- A scheme of rigorous moderation is implemented for all the subjects and for all the papers with more than 100 students.
- The results are declared within 45 days after the examination and Mark sheets are issued to students/parents.
- For T.Y.B.Sc. Theory, preliminary examination is conducted by the college. This helps the students as a rehearsal of the University Annual Examination. Physics, Zoology and Botany departments also conduct preliminary practical examinations.
- T.Y.B.Sc. theory and practical examinations are conducted by the University. Examination plan is declared by University and is updated on University Website.
- Question papers are assessed using Centralized Assessment Program (CAP) in the University. Results are declared on University web site for students and parents. Mark lists are sent to colleges.
- For self-financing courses assessment is done as per University norms.
- The overall performance of the students throughout the year is judged by tutorial and tests in some subjects particularly in Mathematics and Information Technology, and by projects in FC.
- We also conduct parents meetings twice a year where parents are informed about student's progress and attendance.
- In addition to this we have Mentor system where students are assigned to different teachers. The mentor teacher keeps an eye on progress of the student throughout the year.

2.5.3 *What is the mechanism for redressal of grievances regarding evaluation?*

- If student is not satisfied with the evaluation of any subject, student can apply for verification of marks within 8 days after the declaration of the result.
- Student can even apply for photocopy of assessed answer paper within eight days after declaration of result. If he/she is not satisfied with the assessment, he/she can apply for reassessment of that answer paper after paying required charges as per the rules of University of Mumbai.
- For any grievance against the evaluation, the students or the parents are free to meet the Principal.
- As per the request of the student the examination committee verifies the marks.
- An unfair means committee is formed during the examinations. Any case of unfair means is reported to the unfair means committee through the Principal. This committee conducts an interview of the candidate against whom the report is made. On the basis of the report and the facts, the committee recommends prescribed punitive measures to the Principal. The Principal takes a suitable action accordingly.

2.5.4 *What are the major evaluation reforms initiated by the institution/affiliating University? How does the institution ensure effective implementation of these reforms?*

- Though we are aware of number of healthy practices published by NAAC, we cannot make drastic changes in examination reforms as our college is governed by the rules of Mumbai University.
- However from last four years, we are conducting the ATKT examinations in the month of August/September. As a result, we observed that many students could clear their subjects before term end examination.
- Mathematics and Statistics departments conduct terminal examination, in addition to preliminary examination and class tests, for T.Y.B.Sc. students in order to improve the results.
- University has made it mandatory to all institutions affiliated to University to assess the answer books in college. Teachers feel secured through this Centralized Assessment Program (CAP), and it has become possible to announce the results in

time.

- Moderation is made compulsory in the subjects where number is exceeding hundred.
- A set of two question papers is set for each paper in each subject and the examination committee selects one of the two sets in a meeting. The question papers carry codes instead of nomenclature and paper numbers to observe secrecy.
- Computerization of all examination work up to the printing of statement of marks is exercised.
- Statement of marks carries our Hologram.

2.6 *Best Practices in Teaching -Learning Process*

2.6.1 *Detail any significant innovations in teaching/learning/evaluation introduced by the institution?*

- The college offers a large number of subject options at entry level to the students to allow them to fulfill their aspiration and educational requirements.
- To answer the global requirement, Institution has introduced self-finance courses like Information technology, Computer Science, Microbiology and interdisciplinary course like Biotechnology.
- We conduct “A Certificate Course in Bioinformatics” twice in a year, which is yet another way to equip students for global competencies.
- Every year college arranges Seminar /Workshop and students are encouraged to participate actively in these programmes.
- Many Faculties are members of the syllabus committee. They actively participate in reframing the syllabi to suit the global requirements. They collect information from internet, feedback from students, industries and provide input to Board of Studies in order to reframe syllabi.
- On line Journal facility i.e. database J- STOR is made available in the library.

For Re-accreditation:

1 What were the evaluative observations made under Teaching-Learning and Evaluation in the previous assessment report and how have they been acted upon?

The evaluative observations made under teaching learning and evaluation in the previous report are:

- 1) “The traditional subjects taught at present have to be augmented with frontier area of science being persuaded globally such as Biotechnology, Bioinformatics, Biochemistry, Microbiology, Electronics Sciences, Photonics, Artificial Intelligence, etc.

Action taken:

- We have started graduation course in biotechnology in the year 2007-08.
- In the year 2008-09 graduation course in microbiology and computer science is introduced.
- Post graduation course in the subject I.T. is started from the year 2004-05.
- Additional division for graduation in I.T. from the year 2007-08 is introduced.
- Certificate course in bioinformatics is conducted from year 2007-08 which is an add-on course conducted by Zoology department.
- Certificate course in ‘Gardening and Horticulture’ is conducted from year 2007-08 which is an add-on course by Botany department.
- Vidya Prasarak Mandal has started part time course/vocational batches in foreign languages such as French, German and Japanese.
- VPM’s I.T. centre conducts the programmes of CCIT, MS-CIT, CCP, WPD.
- We have applied for Environmental Science as applied component subject at T.Y.B.Sc.

2) *Appointment of supporting faculties from industry/business establishment to share their experience with regular students and faculty members.*

Action taken:

We arrange additional lectures of different personalities from industry and business establishments through various departmental clubs. These lectures boost the students to look at the subject in different angle, according to its application in the industry. We also get guidance from QAC members who are associated with industry. In our campus we have VPMs' BRIMS where the faculties are associated with industry from whom we get guidance. There are some visiting faculty members for B.Sc Bio-tech and M.Sc. IT students

3) *Due consideration and importance may be given for moral education classes for both boys and girls.*

Action taken:

- NSS conducts Workshops in which lectures are arranged on social issues, in association with NGO Akshara.
- NCC conducts some lectures on value educations.
- Through Ambika Yoga Kutir, Thane, yoga and meditation classes are conducted in which students' mental and physical abilities are refined.
- Through Women Development Cell lectures are conducted for boys and girls to give moral and value education.
- In foundation course stress is given on moral and value education.
- College is associated with Vivekananda Kendra, Thane branch and this institution conducts programmes on moral education in college.

2 *What are the other quality sustenance and enhancement measures undertaken by the institution since the previous Assessment and Accreditation with regard to Teaching-Learning and Evaluation?*

- Internet is made available to all students and teachers free of cost.
- Campus is connected through Wi-Fi.
- Online journal facility is made available in the library .Database J- STOR provides access to 1000-1400 National and International journals.
- Self-financing courses have been started.
- Vidya Prasarak Mandal has started part time course/vocational batches in foreign languages such as French, German and Japanese.
- VPM's I.T. centre conducts the programmes of CCIT, MS-CIT, CCP, WPD.
- Students' profile shows that student input is of limited skills and competency. The counter mechanism of more contact with teachers and students in the campus is ensured. All the teachers boost their confidence through counseling. Remedial coaching also improves their level of understanding.



Outreach Activities



Research Activity



Latest Equipment

Criterion III



College- School Complex



Contribution To Nation building



Cultural Programe: NCC

Criterion III: Research, Consultancy and Extension

“All progress is born of inquiry. Doubt is often better than overconfidence, for it leads to inquiry and inquiry leads to invention.” The world is rapidly changing and the knowledge produced at a pace that is accelerating. With the help of their knowledge and expertise teachers have social responsibility to serve students and community. Our institute and its leadership strive for promotion of research culture for which all kinds of facilities are provided to teachers and students. Our leadership believes that “Your brain has a capacity for learning that is virtually limitless which makes every human a potential genius.” Hence our institute continuously encourages its staffs for research projects, consultancy work, and publications in academic journals and participation in professional programmes. “Research is to see what everybody else has seen and to think what nobody else has thought.” Hence theoretical and practical findings through research are utilized for dissemination of knowledge that is beneficial for the society and nation. The institute, apart from academics and research, extends association with NGOs and peers from different fields to encourage extension activities through NCC, NSS and YOGA.

3.1 Promotion of Research

3.1.1 *Is there a Research Committee to facilitate and monitor research activity? If yes, give details on its activities, major decisions taken (during last year) and composition of the Committee.*

A committee “Science Square” has been propagating research culture among the students for past 4 years. Considering the recommendations by NAAC a Research Committee has been formed in June 2009. As per the committee decisions, 1) The committee will monitor the funding through college budget, to the student research projects and other requirements. 2) Circulars calling for research proposals are displayed on the notice boards and sample proposals are made available for reference. 3) Circulars / invitations regarding Seminars / Conferences / Workshops are forwarded to heads and concerned teachers. 4) Efforts will be made to develop research culture among the students.

3.1.2 How does the institution promote faculty participation in research? (Providing seed money, research grants, leave, other facilities)

- The Institute/ Management has always provided financial support to different research activities. The departments engaged in research activity are given extra funds and are instructed to provide required facilities to the research students. Hence need for separate budget was not felt. Now the institution has decided to provide additional Rs.1.5 lakhs for research and development from year 2009-2010, together with the earlier provisions.
- The College organizes Workshops / Seminars / Conferences and provides duty leave, TA/DA to the faculty members to attend / participate in such programmes.
- Faculty members are encouraged to pursue research. And confirmed faculty members are granted study leave under FIP scheme of UGC to complete their M.Phil. / Ph.D. as per UGC guidelines. There is significant increase in the research projects after 1st accreditation.
- Faculty members are encouraged to write and forward research proposals for financial support to different funding agencies. (UGC/CSIR/DRDO/ICAR/MOEF)
- The College provides laboratory and library facilities to the faculty for research work.
- The colleagues give, teachers pursuing research, complete support.
- The College felicitates faculty conferred with Ph.D. Degree.

3.1.3 Does the institutional budget have a provision for research and development? If yes, give details.

Yes, a budgetary provision of Rs. 1.5 lakh is made from the year 2009-10. Earlier the institution was providing funds for the required research material and equipments

3.1.4 Does the institution promote participation of students in research activities? If yes,

give details

Yes, the students are encouraged to participate in Conferences/Seminars/Workshops organized in the college as well as by other institution and also in the programmes such as “*College-School complex*” and “*Science Square*”. The College extends all the support facilities for the annual state level research activity like “AVISHKAR” of University Of Mumbai. The students participate in the research activities conducted by NGOs, Jidnyasa and Marathi Vidnyan Parishad etc. In past 5 years 148 undergraduate students participated and completed 64 research projects that were multidisciplinary and covered a wide variety of themes such as-Environmental studies, Chemical studies, Toxicity studies, Biodiversity, Insect studies, social issues etc. Innovative projects submitted by students are compiled in “Mini Research Project.” to motivate and encourage other students.

3.1.5 What are the major research facilities developed on the campus?

- The institution has subscribed for online database like JSTOR, EBSCO, CMIE, ERIC, Open access database; under JSTOR around 1000-1400 journals (National and International) are made available to faculty and students on Internet.
- The management has developed Video Conferencing facility on the campus. Due to this the students can interact with the eminent teachers and research scholars.
- Zoology Department has acquired research instruments such as spectrophotometer, phase contrast microscope with photo micrographic unit, stereoscopic microscope for taxonomic studies, BOD incubator; Digital eyepiece.
- Chemistry department has developed advance facilities such as Spectrophotometer, Flame photometer, Shimadzu's UV spectrophotometer, Microwave oven, digital one pan balance, densitometry etc. International Journal is subscribed especially for departmental needs. M.Sc. and Ph.D. Labs are renovated.

- Botany laboratory along with research laboratory has been renovated in 2008. Department has developed advance facilities such as colorimeter, water bath, laminar flow, magnetic stirrer, water distillation plant, incubator, digital balance, centrifuge.
- New biotech laboratory was built in October 2008 with all essential facilities such as Hot Air Oven, Incubator, Rotary Shaker, Autoclave, Centrifuge, Colorimeter, pH meter, Spectrophotometer, 5 computers with internet and Separate rooms for Laminar Air Flow and Plant Tissue Culture racks.
- Library has developed significantly after 1st accreditation. With Web OPAC, one can access to library books from anywhere in world. In all the departments, computers with Internet facility are made available to students.
- Our College has Wi-Fi.

3.1.6 Give details of the initiatives taken by the institution for collaborative research (with Ntional/ foreign Universities/ Research/Scientific organizations / Industries / NGOs)

- ❖ **National:** i) Science and Technology Department of Government of India declared Year 2004 as the year of scientific awareness to inculcate research habit among the students. To achieve this purpose BARC selected our college from Mumbai region for research activities under name “**Science Square**”. Several mini research projects were initiated involving students. Since then the Science Square activity has continued in our college. ii) Dr. Sonia Sukumaran of National Institute of Oceanography (NIO), Mumbai has collaborated with Dr. R.P.Athalye, (Zoology department) for Polychaete taxonomy and ecological (especially benthic) studies.
- ❖ **Foreign Universities:** The MOU was signed between Vidya Prasara Mandal (VPM) and the University of Skovde located at Högskolevägen, Box 408, SE 541 28 related to studies and research in Biotechnology and Molecular Biology.

- ❖ **Research:** Dr. R.P.Athalye **from Zoology** and Dr.M.Saha from Botany **are** working as a co-investigator in a UGC sanctioned Major research project at RKT College and at Birla College respectively.
- ❖ **Scientific organizations:**The faculty members have been working with many reputed institutes like TIFR, IIT, NIO and Science and Technology Department of Government of India.
- ❖ Some of our faculty members are Ph.D./M Phil Guides with other universities like YCMO University, Allagappa University.
- ❖ **NGOs:** i) Staffs of Zoology department are involved in collaborative research on Thane Creek and Mangroves with Conservation Action Trust (Mumbai). ii) Students participated in environment related research organized by NGOs EnviroVigil (Nisargmela), Hariyali, HOPE, Jidnyasa Trust, and WWF etc.

3.2 ***Research and Publication Output***

3.2.1 ***Give details of research guides and research students of the institution (Number of students registered for Ph.D. and M. Phil., fellowship/scholarship, funding agency, Ph.Ds and M.Phils awarded during the last five years, major achievements, etc.)***

No. of Research Guides	Ph.D.	11
	M.Phil.	12
	M.Sc. By Research	12
No. of Research Scholars	Ph.D.	21
	M.Sc. By Research	04
No. of Ph.D. Conferred		04
No. of M. Phil. Conferred		03
No. of M.Sc. Conferred		07

Ms Rani Singh (Ph.D. students Botany) got Daxina Research Fellowship from University of Mumbai and awarded full sponsorship from society of Ethno biology for presenting oral presentation in the 31st ethno biology Conference held at U.S.A.

Ms. Shreya Shripad Bhanap (Ph.D. students Botany) got Daxina Research

B. N. Bandodkar College of Science, Thane

Fellowship from University of Mumbai, Mumbai

Ms. Gayatri Sagde (M.Sc. by research student Zoology Dept) received Post Graduate Merit Scholarship.

Ms. Neha Sawant received UGC fellowship of Rs.8000/- pm for project on “Separation of endogenous inhibitor, immobilization and properties of PPO from onion leaves”

3.2.2 Give details of the following

a) Departments recognized as research centers :

Chemistry, Botany and Zoology.

b) Faculty recognized as research guides and c) Priority areas for research

Name Of Guide	Ph.D.	M.Phil.	M.Sc. (Research)	Priority Areas For Research
Dr. Ms.M.K.Pejaver	✓	✓	✓	Environmental studies,Toxicology,Limnology Biodiversity and Entemology..
Dr. R.P.Athalaye	✓	✓	✓	Environmental studies, (creeks, river, lake) Insects & Polychaete toxonomy, Benthic study. Physiology
Dr. Ms.N.N.Patil	✓	✓	✓	Environmental studies & Fishery
Dr.Ms.S.V.Mahajan	✓	✓	✓	Environmental studies & Toxicology
Dr.Ms.M.S. Mulgaonkar	✓	✓	✓	Orchids & Pharmacogonsy
Dr. M.J.Kolet	✓	✓	✓	Mycology and Environmental biotechnology

Name Of Guide	Ph.D.	M.Phil.	M.Sc. (Research)	Priority Areas For Research
Dr. Mrs.M.Saha	✓	✓	✓	Plant tissue culture and Environmental biotechnology
Dr.M.N.Nyayate	✓	✓	✓	Atomic, nuclear and solid state physics

Dr.A.N.Bedekar	✓	✓	✓	Bio-organic and Analatical Chemistry
Dr.M.V.Rathnam	✓	✓	✓	Thermodynamics
Dr.Mrs.A.S.Goaswami-Giri	–	✓	✓	Organic and Bio Chemistry, Natural Products

d Ongoing Faculty Research Projects (minor and major projects, funding from the Government, UGC, DST, CSIR, AICTE, Industry, NGO or International agencies)

Research Project	Department	Funding Agency	Amount Sanctioned (Rs.)	Principal Investigator
Major	Chemistry	UGC	11,30,800	Dr.(Mrs.) A.S.Goswami-Giri
Consultancy	Zoology	Conservation Action Trust, Mumbai NGO	1,17,000 +30,000	Dr. R.P. Athalye

e Ongoing Student Research Projects (title, duration, funding agency, total funding received for the project).

Total 35 ongoing student research projects of M.Sc. /M. Phil. / Ph.D. are reported in Annexure 10.

3.2.3 What are the major achievements of the research activities of the institution (findings contributed to subject knowledge, to the Industry needs, community development, patents etc.)?

- ❖ The research in the institution is applied and significantly oriented to community needs and subject knowledge. The major achievements of the research activities of

the institution are summarized below.

- ❖ The staff of Zoology department has significantly contributed to the knowledge of Environment Impact Assessment and has developed expertise in taxonomy of phytoplankton, zooplankton, polychaetes, insects and fish. The department has carried out extensive work on Thane creek and Ulhas river estuary and the mangroves, which are very important lifeline ecosystems in Mumbai-Thane-Kalyan-Dombivali-Navi Mumbai Complex. The data generated is proving useful in deciding mitigation strategies. Staff members are invited for guidance by NGO's like Enviro-vigil, Samarth Bharat which are working for development of Thane City and the region around. Dr. Pejaver gives talks on solid waste management and water conservation for the benefit of the community development. A Ph.D. research student has described over 30 new species types of click beetles (Elateridae) which is a significant contribution to the subject knowledge.

Apart from this following noteworthy work has been done in the department.

1. Hazardous effects of a non-homeopathically used aphrodisiac (This may lead to the development of male contraceptive). 2) Impact of pollution on the health of local fishermen community. 3) Impact of unhealthy practices used by natives for killing fish and prawns such as use of explosive, insecticides. 4) Assessment of local methods used by fisherman to reduce toxicants in the fish. 5) Study of Household biocompost fauna. 6) Insect pests of mangrove, 7) Survey on economic and health status and skin diseases of Adivasi Tribal population in and around Thane District. 8) Butterfly fauna of 'Yeoor' Sanjay Gandhi National Park. 9) Use of macrophytes in nutrient absorption from water. 10) Butterfly gardening. 11) Toxicity and behavior studies on rotifers, an important link in food chain. All the above activities contribute to subject knowledge and are directed to community development. *Recently conducted (03 Dec. 2008) Seminar "Wonderful World of Insects" and its two preparatory Workshops were kept community oriented.

- ❖ Dr. Mrs. K.D. Phal from Statistics department has worked to develop a model in the field of "Outliers study". The model has been accepted internationally and the details

have got published in journals of International status. The departmental staffs help NGOs to analyze the data statistically.

- ❖ The Chemistry department has been working on alkaloids, endogenous inhibitors of fruits and vegetable; immobilization of enzymes, chitins and chitosans from prawns and other marine resources; fertilizers; thermodynamics and transportation of binary mixture; thermo physical properties etc. Some studies are important in development of drugs that are used for treatment for various types of diseases and disorders. Techniques developed for extraction of chitin and chitosan/alkaloid/secondary metabolites; have industrial applications. The staff is engaged in methodological set up by using nanotechniques for Green Chemistry (effective extraction techniques that will minimize toxic effluents and pollution), phytochemistry, and preparation of natural products. This knowledge is used for drug development and for making environment healthy and green.
- ❖ The research activities by the staffs of Botany Department are diverse like work on Orchid taxonomy, stomatal anatomy, palynology and seeds under scanning electron microscope (SEM), mycology and environmental biotechnology, keratinophilic fungi from soils of Thane and adjoining region, fungal endophytes in some tropical grasses and medicinal plants, fungi from diverse habitat and fungal biodegradation, plant tissue culture, environmental biotechnology, seed mycoflora, effect of micronutrients, antimicrobial and cytotoxic activity of fungi responsible for biodegradation and humidification of organic matter. Dr .N. S. Tekale's work on community development is noteworthy and is related to the Tribal belt of Thane district. He has studied Vitamin A deficiency and nutrition and dietary aspects in tribal community. His work on malnutrition is recognized internationally.
- ❖ Under College – School complex and Science square activity, some projects guided by our faculty have reached State or National level. The students participating in

National Talent Search programme or Homi Bhabha Junior Scientist Fellowship for school children also seek guidance from our faculty.

- ❖ Major research findings are published in National /International journals regularly and some study materials are incorporated in reference books.

3.2.4 Are there research papers published in refereed journals by the faculty? If yes, give details for the last five years including citation index and impact factor.

Yes, in past 5 years, 35 papers in International Journals and 29 papers in the National Journals have been published. For details refer to Annexure 11.

Give list of publications of the faculty

A	Books	03
b	Articles	32
c	Conference/Seminar Proceedings	3 in proceedings and 29 abstracts
d	Software packages or other learning materials	02 [#]
e	Any other (specify) publisher	01 [*]

[#] Mr. Kale, IT department has developed software packages for college students' attendance, result and mark lists.

[#] Mr. V. S. Burkule, HOD Chemistry Dept. with the help of other staffs, prepared a soft copy for Chemistry teachers on revised F. Y. B. Sc. Syllabus.

^{*} Dr. V. M. Jamdhade is the publisher of International Scientific Journal "Bionano-Frontier"

3.3 Consultancy

3.3.1 List the broad areas of consultancy services provided by the Institution during the last five years (free of cost and/or remunerative). Who are the beneficiaries of such consultancy?

Sr. No.	Consultancy Project Title/Year	Free Of Cost / Remunerative	Knowledge Base Beneficiaries Apart From Participating Staff.
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1	Study of Biodiversity of Bhatsa River through Parikrama.2004	Free of Cost	NGO Hariyali, Thane.
2	Biological analysis of samples of Thane creek near Kanjur waste dumping site.-2006-07	Remunerative Rs.15000/-)	Ramky, Hyderabad.
3	Analysis of Water, Sediment and biological parameters of six stations near Kanjur dumping site (Landfill Site). 2006-07	Remunerative (Rs. 60,000/-)	Mr.Vivek Kulkarni.
4	Abiotic and Biotic studies for developing wetland Centre along Thane Creek. 2007-2010	Remunerative, Rs. 1,17,000+30,000	Conservation Action Trust Mumbai.
5	Consultancy services in EIA, Biodiversity and Environment studies.	Free of Cost	Research Students. National / Govt. Institutions like NIO. Municipal Corporation
6	Consultancy services in Statistical Analysis for the project on “Status of T.M.C. schools.”	Free of Cost	i)Education Dept. Of T.M.C. ii)NGO Samarth Bharat, Thane.

3.3.2 How does the institution publicize the expertise available for consultancy services?

The consultancy services available in the college are publicized through public meetings, gatherings, parent meetings and general body meetings. Apart from this, the college has generated goodwill, which fetches consultancy work. Regular interactions during Workshops, Seminars, Conferences with schools and other colleges; researchers give publicity to our expertise.

3.3.3 How does the institution reward the staff for the consultation provided by them?

The college appreciates the consultancy service provided by the faculty. In general, approximately 35% of the earning is given to the staffs that work for the consultancy

project. Providing additional budget also rewards the concerned department.

3.3.4 *How does the institution utilize the revenue generated through consultancy services?*

The Revenue generated is used for development of research laboratory of the concerned department

3.4 *Extension Activities*

3.4.1 *How does the institution promote the participation of students and faculty in extension activities? (NSS, NCC, YRC and other NGOs)*

For each class the academic year begins with inaugural lecture in which Principal and the Coordinators explain about the extension activities and their importance. The senior students of NCC/NSS display informative posters and also visit each class for canvassing. This attracts the fresh entrants to join the extension activities with willingness and enthusiasm. The faculty members participate voluntarily to make new students resourceful and expert. College provides all required infrastructure and facilities and also gives freedom of planning and execution to the staff. NSS camp is organized without disturbing academic schedule. The students and faculties are given study leave / duty leave for all extension activities. The participation and achievements of students and faculty are always appreciated. These multi facet activities help the students to become self-reliant, bold, and capable of meeting the future challenges.

3.4.2 *What are the outreach programmes organized by the institution? How are they integrated with the academic curricula?*

- NSS camp is organized regularly at Shantivan situated in Nere village, Panvel in Navi Mumbai since 2003-2004. In the camp the students help to clear the debris around the trees; re-enforcement with mud by which the trees remain healthy and

stable. Vasant Bandhara was made for water conservation and a compost pit for fertilizer was dug. A small bund was made across Gade River in 2005-06. Teachers always accompany the NSS volunteers and participate whole-heartedly in all NSS activities.

- NCC Camps such as Annual Training, Basic and Advanced Leadership, National Integration, Army attachment, Pre RDC. Adventure (rock climbing, treks etc.) and Thal Sena camp are organized. The cadets are given training in Yoga and Personality Development.
- Activities important for society in general such as blood donation drive, cleanliness drive, tree plantation & weed removal programme, Relief work after disaster, Anti dowry movement, Anti tobacco drive, Rally to prevent suicide, Pulse Polio drive, work for blind and disabled children, street play on harassment of women, opening helpline for women, World Aids Day Rally, Traffic control week, visit to Tribal / Mathadi, Communal Harmony Workshop, Media club Workshop, lectures on Nutrition & diet, lecture on Army as career option, study visit / surveys to understand problems of slum dwellers (Dharavi) and women commuters (Dadar / Dombivali) are organized by NSS and NCC units.
- Through *College school complex* the school students seek guidance in the research projects for National Children Science Congress or for competitive exams such as National Talent Search, Homi Bhabha Junior Scientist Search etc.
- The staff also extends services in conducting Maharashtra Talent Search (MTS) examinations organized by Wadia college, Pune.
- Yoga committee has collaboration with Shri Ambica Yoga Kutir, Thane since 2000. It offers yoga training to all students and staff of VPM Institutes on the campus.
- Women Development Cell has organized guest lectures on various topics to

facilitate women development.

- To inculcate social awareness and moral values in the students, AIDS awareness, problems related to drug abuse, senior citizens, dowry, child labour, environmental issues etc. are incorporated in the Foundation Course Syllabus of F.Y and S.Y classes.

3.4.3 *How does the institution promote college-neighborhood network in which students acquire attitude for service and training, contributive to community development?*

The institute has co-opted representatives of local NGOs and industries / business sector, on NSS committee, QAC etc. The institution has linkage with Thane Police, NGOs such as Hariyali, Jidnyasa, HOPE, Akshara of Thane city and also personalities from industries / business organizations (Color chem., Lab India, Thane Bharat Sahakari Bank etc.) Considering their suggestions students acquire attitude for service and training and contribute to community development through different activities

3.4.4 *What are the initiatives taken by the institution to have a partnership with University / Research institutions / Industries / NGOs etc. for extension activities?*

The College accommodates peers from NGOs and various institutes in the advisory committees of departments, NSS and QAC to get acquainted with the community needs and expectations. NCC & NSS units actively collaborate with Mumbai University, and NGOs Hariyali, Akshara, Enviro-Vigil in their extension activities throughout the year. On 3rd August 2007 the college organized 40th University youth festival zonal elimination of University of Mumbai in collaboration with VPM's Joshi Bedekar College of Arts & Commerce. Collaborating with University of Mumbai a competition Avishkar was held. In collaboration with WWF, Workshop on Wonderful world of Insects was conducted. The College has linkage with Shri. Ambika Yoga Kutir.

3.4.5 *How has the local community benefited by the institution? (Contribution of the institution through various extension activities, outreach programmes, partnering with NGOs and GOs)*

- √ **Regular camps** at Shantivan, the Old Age Home and Leprosy Rehabilitation Center at Nere, Panvel has led to significant development of the place. Apart from service to the centers, NSS students offered their service to develop water storage and conservation, bio composting to produce fertilizer, maintenance of trees etc
- √ Masses are educated through Anti dowry, Anti tobacco derive, Tree plantation, Communal Harmony Workshops and street plays on different issues.
- √ Improved environment is made possible through tree plantation, cleanliness drive, seed collections, weed removal programmes etc.

3.4.6 *How has the institution involved the community in its extension activities? (Community participation in institutional development, institution-community networking etc.)*

The dignitaries from different NGOs, industries, organizations; past students and parents not only help in planning the extension activities but also give suggestions for the development of the institutions and actively cooperate in the fund raising drive organized by the management. Some times they contribute in form of donations of funds or instruments/equipments. The institution - community networking helps us in getting consultancy projects. Interaction with schools introduces the staff to newer ideas of next generation, thus benefiting them. Because of involvement of community we can properly target the extension activities to the areas where they are needed and hence the efforts are not wasted.

3.4.7 Any awards or recognition received by the faculty / students / Institution for the extension activities?

◆ Faculty: 1.Dr. Kolet M.J. achieved 'Alpha' grade and stood first at 'All India Level' in NCC refresher-cum-promotion course (April-May 2006) Kamptee, Nagpur and was felicitated by Brig. R.C. Shard, D.G.N.C.C. Maharashtra, for above achievement, on July 28, 2006. He was also awarded 'long service medal' (7 year) by D.G.N.C.C. for service in N.C.C. organization on Feb 23, 2007.

◆ Students:

- 1 Gold Medal for Best turn out in NIC at Post Blair, Andaman (2003- 04).
2. Sahara India Scholarship of Rs.12, 000/- to NCC cadet Manasi Godbole S.Y.B.Sc. (2005-06)
3. Republic Day Camp 2007, 1st prize in Line Area, 2nd prize in Drill, Flag Area, P.M. Rally, Ship Modeling, 3rd prize in Group Dance, Group Song, 4th place in NIAP. Mr..Lucky Kharkar, NCC Navy was member of Maharashtra contingent (2006-07)
4. NIC Indore 2007, 2nd prize in Gobar Gas Project & Essay competition (Cadet Satish Patil & Cadet Sidharth Waghmare) (2006-07)
5. NIC Shivaji Trekking camp, 1st prize Maharashtra contingent to Cadet Rhishikesh Joshi (2006-07)
6. Ooty trek, 1st prize in solo dance to SUO Priya Waghmare. Best cadet of Mumbai B Group 2006-2007 to SUO Jyotsna Bhawasar (2006-07)
7. Mr.Lucky Kharkar (Naval Wing) selected by Defense Ministry to visit 14 countries (2007-08).
8. Gold medal in firing to Rutika Ghadge (NCC Girls) (2007-08).
9. Best Performance in Group Dance (NCC Navy) (2007-08).

10. Best college Trophy by D.Y. Patil College. (2008-09)

3.5 Collaborations

3.5.1 Give details of the collaborative activities of the institution with the following

Local Bodies: Following table illustrates the collaborations with local bodies/communities.

Table 3..5.1. Collaborations with local bodies /communities.

<u>ACTIVITIES</u>	<u>RESPECTIVE COLLABORATING LOCAL BODIES .</u>
Tree plantation programmes	Janta Sahakari Bank, 'Vruksh Mitra' / 'Hariyali' NGO Thane)/ Brihan Mumbai Municipal Corporation/ VPM Management / Fulora Nursery/
Pulse polio immunization programme	Thane Muncipal Corporation / Thane, Aurvedic Dispensary/ Thane Muncipal Corporation
Blood donation camp	Rotrary Club. Thane / J.J. Group of Hospitals, Mumbai and Citizens Group, Mumbai / NCC and LIONS Club/J.J. Hospital Blood Bank
Rallies	Thane Municipal Corporation / Dept. of Social Welfare, Zilla Parishad, Thane/ Hariyali, NGO fromThane/Health Department, Govt. of Maharashtra/ Sarvodaya Mandal Mumbai and NSS Unit Mumbai University
Others	NGO "Enviro-vigil/" Hariyali, NGO from Thane"/ R.T.O Thane and PWD, Govt. of Maharashtra /Akshara (NGO)/ NGO, Hitech Family Enrichment Foundation / Sarvoday Mandal/ Kashthakari Sangathana Dahanu .

- * NGO named 'CAT' – Conservation Action Trust in collaboration with Zoology department has started a project "Seasonal study of Biotic and Abiotic parameters of some stations along Thane creek"
- * T.Y.B.Sc. Zoology students worked in 2006-07 on the project "Analysis of Nala water from Thane city." Water and pesticide analysis has been completed with the help of Thane Municipal corporation water pollution cell and NGO Jidnyasa from Thane.
- * The staff from Statistics is working with NGO Samarth Bharat on educational project.

- * Some of our teachers presented series of talks on All India Radio, Mumbai.
- * Seminar on “Wonderful World of Insects”(3rd Dec. 2008) was organized in collaboration with **WWF, Maharashtra, India.**
- * Zoology Department completed a project on 'Analysis of water, sediment and biological parameters of six stations near Kanjur dumping site (Landfill area)'. Mr. Vivek Kulkarni who had been working on behalf of Govt. of Maharashtra funded the project.

National

- * In collaboration with Science and Technology Department of Government of India and with BARC, “Science Square” activities are conducted.
- * Staff from Zoology Department is working in collaboration with the Scientist from NIO and has completed a project on ‘Biological Analysis of samples of Thane creek near Kanjur waste dumping site’, for RAMKY, Hyderabad in July 2006.
- * Principal Dr. Mrs. M.k.Pejaver was invited to deliver keynote addresses at many national Conferences.

International:

- * VPM has collaboration with Skovde University, which will benefit our Biotech Department.

Service sector:

- College provides the premises for Election purpose, Various examinations such as Banking, MPSC, Mumbai University examinations other than Science. NSS and NCC

volunteers help Police every year on Ganesh visarjan day. Students have volunteered to check pollution at various points in Thane city as a part of a drive set up by Thane Municipal Corporation.

Agriculture/ Forest sector:

- Tree plantation programs are arranged regularly. The trees prevent erosion of soil and benefit agriculture. NSS volunteers participated in the camp at Shantivan, Nere. During this camp 141 mango trees were cleared of debris and a trench was made for putting water and fertilizers. They also built a “Vasant Bandhara” and a compost pit.

Other:

- Two of our teachers are working as co-investigators in Major research project at RKT College, Ulhasnagar and Birla College, Kalyan respectively.

3.5.2 How has the institution benefited from the collaboration?

a) **Curriculum development**

✂ The University designs curriculum. Suggestion received from collaborating agencies is forwarded to the University bodies for favorable consideration.

✂ MOU for collaboration with Skovde University includes development of courses on Biotechnology / Microbiology. Accordingly courses of international standard are being developed for the benefit of Indian students.

b) **Internship**

✂ Postgraduate students carry out their projects in collaboration with different research and development institutes.

c) **On-the-job training**

✂ Microbiology students undergo on-the-job training in industries.

d) **Faculty exchange and development**

✂ Ms.Sneha Narvekar, Staff, Biotechnology / Microbiology Department and Meghna Joshi, Staff V.P.M. visited Skovde University, Sweden for 45 days under faculty exchange programme.

e) **Research:-**

✂ The work of Zoology teacher, “Diversity studies of high altitude Macro Lepidoptera of Western Ghat (Maharashtra)” will help in developing knowledge on Lepidoptera.

✂ The collaborations with other Institutional scientist, R&D sectors update the knowledge, which are long-term gains for the staff and researchers from our college. The collaboration helps us to gain resent and decent knowledge in research, which proves to be beneficial for the publications.

✂ The work of Botany teacher on “*In Vitro* culture studies in *Lawsonia intermisL* generating colored callus mass production of herbal hair dye and coloured streak”, will help in developing biotech knowledge.

f) **Consultancy**

- ❖ The consultancy projects have given exposure to the participating staff to different aspects of Environment Impact Assessment (EIA), which developed expertise in the fields. Funds generated through consultancy are utilized for development of the concern department.

g) **Extension**

- ❖ Information is disseminated on various issues of socio-economic concern to students and community through various extension activities.
- ❖ The extension activities of NCC, NSS mainly lead to personality development of students and staff. The collaborations with NGOs provide opportunity to serve community in better way, leading to development of goodwill.

h) **Publication**

✂ Research activity in the college has added a lot to the intellectual development in the college. In past 5 years, 35 papers in International Journals and 29 papers in the National Journals have been published. An international manuscript demonstrates the quality research output, which has increased significantly in our college.

h) Student Placement

✂ Many renowned firms like ICICI Prudential, Apex, L & T, Patni Computers, Tata Consultancy Services, and WIPRO etc. conduct campus interview through Employment cell and absorb the deserving students regularly.

3.5.3 *Does the institution have any MOU/MOC / mutually beneficial agreements signed with other academic institutions?*

Vidya Prasarak Mandal has signed MOU with academic institute Skovde University, functional in Biotechnology/Microbiology department. Under this MOU, courses will be developed; study material, knowledge, faculty and students will be exchange

3.6 *Best Practices in Research, Consultancy and Extension*

3.6.1 *What are the significant innovations / good practices in Research, Consultancy and Extension activities of the institution?*

Research

- Organizing at least one Seminar (along with two preparatory Workshops) every year in which students and faculty participate and present the research work.
- Students and faculty are encouraged to participate and present their research in the Workshops, Seminars and Conferences organized by other institutes.
- Through “Science Square” students are encouraged to take up research projects under

the guidance of the faculty members.

- Faculty is encouraged to apply for research projects to UGC and other bodies.
- Institution provides the needed instruments; equipment to the staff for project work.
- Availability of around 1000-1400 International journals through J-STOR. Open access database on college web site is a real asset to the faculty and research students.
- Internet facility is made available in every department and library.

Consultancy:

- Institute encourage consultancy & provides all facilities needed.
- Staff working on consultancy project is given approximately 35% of the consultancy project funds as honorarium. Remaining funds are used for development of research facilities in the department.

Extension Activities:-

- Proper scheduling of activities is done so that they go hand in hand with academic activities.
- Collaboration with NGO's, University is welcome involving peers from different fields by co-opting them on advisory committees.
- Multi facet activities including community service, Mass Education, Agricultural & Forest Service, Awareness Drives, Training and Personality Development are regularly conducted.

For Reaccreditation

1. What were the evaluative observation made under Research, consultancy and extension in the previous assessment report and how have they been acted upon?

Following Suggestions were given in the previous assessment.

Suggestion 1 - All the departments of the college should explore the possibility of securing externally funded research projects from agencies like UGC, DST, NBHM, DBT etc. This will help teachers to provide much needed infrastructure to carry out research.

Action taken –

The College has acted upon this suggestion and has encouraged faculty to apply for

externally funded research projects. There is a significant increase in the number of minor and major research project in past five years. Through a specially formed committee Science Square, mini research projects by students are encouraged.

	No. Of Major Projects	No. Of Minor Projects
Previous Data (1 st Accreditation)		
Completed Projects	01	04
Present Data		
👍 Completed Projects	01	11
👍 Ongoing Projects	02	–
Total	03	11

👋 **Suggestion 2** - The College needs more space to accommodate labs with updated facilities to carry out research. The same may be planned in advance.

Action taken –

- The IT department has been provided more space to accommodate labs with updated facilities. A computer lab is made for IT department. Staff and students of any Department, involved in research activity, can use this facility.
- The institution has set up new Biotechnology lab.
- Botany research lab is renovated and Chemistry research lab is under construction.
- To provide more space with updated facilities the institutions has applied to the Thane Municipal Corporation for increased FSI. As soon as we get increased FSI, more space will be made available to research labs with updated facilities.

👋 **Suggestion 3-** Industry Institute partnership is to be raised from the present level. The management should lay down norms for consultancy work to encourage the teachers and technical staff.

👋 **Action taken:** Following norms are set by the institution to encourage consultancy. 1) Staff working on consultancy project will be given approximately 35% of the consultancy project funds as honorarium. 2) 30% of the fund amount will go to management. 3) Remaining funds will be used for development and improvement of research facilities in the department.

2. *What are the other quality sustenance and enhancement measures, undertaken by the institution since the previous assessment & accreditation with regards to research,*

consultancy and extension?

- Faculty is encouraged to apply for minor and major research projects. This has reflected in increase in the number of completed and ongoing research projects.
- Through a specially formed committee “Science Square” students are encouraged to participate in “Mini research projects” which are funded by the college.
- College regularly organizes at least one Seminar every year along with at least two preparatory Workshops. Students under the guidance of faculty are encouraged to take up projects and actively participate in the preparatory Workshops and Seminars to present papers.
- Number of journals subscribed in the library has increased.
- It is a regular phenomenon in many departments to initiate students to take research projects and to encourage them to read and discuss recently published international and national papers.
- Internet facility is made available in every department and library, free of cost to the students and staff.
- Number of computers has increased to 156.
- To encourage consultancy, norms are set up.
- By collaborating with NGOs and eminent personalities from different fields, various extension activities are planned and executed effectively.



Recreation Center



Clean and Specious Canteen



Well-Equipped Bio-Tech Lab.

Criterion IV



Hi-Tech Computer Sc. Lab.



Reprographic Center



Knowledge Bank : Library



*Addition To Our
Glory*

Criterion IV: Infrastructure and Learning Resources

As per the famous scientist Charles Darwin “Not the strength, not the brain but the adaptability to adjust with changing trends, is the only virtue responsible for our existence in the world.” Our college is exactly following his words and has introduced drastic changes in infrastructure and learning resources to keep pace with global competencies and its academic growth. The college has a relatively large campus and adequate infrastructure facilities and resources to conduct the curricular, co-curricular and extra-curricular programs. The infrastructure is used to optimum extent and all the students have an easy access to the available learning resources.

4.1 Physical Facilities

4.1.1 *What are the infrastructure facilities available for*

(a) *Academic activities?*

➤ The College has:

1. A total of 19 classrooms with one classroom being adaptable to the use of electronic teaching aids.
2. A Conference Room with a capacity of 30 seats equipped with one thin client and fixed LCD projector.
3. Well-equipped laboratories. New laboratories for Computer Science, Biotechnology and Microbiology have also been constructed while Chemistry & Botany laboratories are renovated. In all we have 18 laboratories. Along with this we have 154 desktops, 2 laptops, 3- Over Head Projectors (OHP), 6LCD projectors, one Slide projector, 6 Scanners, one digital camera.
4. We have a central library and a reading hall, which can accommodate about 130 students. In the library there is a provision for library staff .One separate room for teaching staff having computer with net facility. The data is available on

OPAC. All libraries on the campus are linked through fiber optics and the data is stored on main server in the server room in the Law college building in the campus. Including the library all departments are provided Internet facility.

5. All departments have separate rooms for their teaching & non-teaching staff and also separate room for Head of the department. All these rooms are with computer & internet connectivity. In addition to this spacious Staff Common Room is shared by all the staff members for interaction.
6. Central library and a reading hall, which can accommodate about 130 students.
7. Renovated office with 22 Thin Client machines.
8. In our office we have adopted the concept of Client-Server Architecture where we have centralized server storing students' database, Payroll, FA, and Employees' Information. 22 Thin Client machines are installed with networked laser printer. Vice Principals of Junior and Degree College, Receptionist and all other staff members of office are provided with separate thin clients, which lead to speedy working. There are two desktops in the office and two in the Examination room. Power backup, automated data backup, multiple leased lines to internet, firewall protection, virus protection; even server cluster are the additional features, showcasing the adaptability to new technology as learning resources.
9. Reprographic facility in the office and library for the staff.
10. One auditorium "Patanjali" well equipped with audiovisual devices.

Our campus has,

1. VPM campus grounds, libraries and auditoriums have been provided with Wi-Fi (WireFree networking). By optimum placement of Wi-Fi access points, we have ensured that Wi-Fi enabled devices such as Laptops and Handhelds can

access the campus LAN from anywhere on the campus grounds.

2. One large and five small auditoriums and many Conference/Seminar rooms, all equipped with latest audiovisual equipments and connected with video conferencing system.
3. Photocopying facility centre and 5 PCO's for the students
4. Canteen facility is available between 8.00a.m.-8.00 p.m. and a cafeteria is open from 7.00 a.m. -11.00p.m.

(a) Co-curricular activities?

- ◇ Six well equipped auditoriums; two audiovisual rooms, Amphi Theater and Conference hall are some of the facilities available for co-curricular activities on our campus.
- ◇ Our entire campus is like a Botanical garden. In addition we have beautiful Botanical garden where spices plants are grown. It is covered with green mesh. We have small classroom next to it.
- ◇ Students have access to the computers installed in the departments.

(c) Extra-curricular activities and sports?

Over the last five years, existing facilities have been upgraded and new facilities have been created on a priority basis.

- ➔ In the year 2006-07 extension and renovation of the Gymkhana was carried out. We are planning to install new equipments like Trade mill, Exercise-bike in the additional area added to Gymkhana in year 2008-09. Gymkhana includes separate room for Gymkhana Coordinator, equipped with computer. We have an enough number of Chessboards, two tables for table- tennis and four carom boards.
- ➔ The college has Jogging track, which is very useful for the students to improve

their physical strength and stamina.

- ➔ Amphi Theater “Patanjali” is utilized for practicing drama and other extra curricular activities. Musical instruments like harmonium and tabla are available in the college.
- ➔ A separate space “Patanjali Yoga Centre’ for yoga classes is developed.
- ➔ We have open-air theatre where we conduct annual gathering and other extra curricular activities.

4.1.2 Enclose the Master Plan of the college campus indicating the existing physical infrastructure and the projected future expansions.

After accreditation during last five-six years to cope up with changing trends in globe we started some new courses for which expansion of infrastructure became necessary. Our management has left no stone unturned and provided infrastructure to the best of their capacity.

The Master Plan of the college campus indicating the existing physical infrastructure and the projected future expansions is enclosed in the Annexure 12. Infrastructural plan of the college is given in Annexure 13.

4.1.3 Has the institution augmented the infrastructure to keep pace with its academic growth? If yes, specify the facilities and the amount spent during the last five years.

Yes, in the last five years adequate infrastructure has been provided to meet the goal of academic development of the college. The facilities provided and the amount (in Rupees) spent during the last five years are as follows

FACILITY \ YEAR ->	2004-05	2005-06	2006- 07	2007-08	2008-09
<i>Office Equipment/furniture</i>	-	11444	-	429468	-
<i>Lab Equipment aided</i>	314467	291012	384513	360035	132016
<i>unaided</i>	386853	40767	-	178038	1623798
<i>Building Rent</i>	816252	816252	816252	816252	816252
<i>Computers</i>	629000	70235	-	513318	970419
<i>Gymkhana</i>	147854	120216	72365	100869	115414
<i>Water coolers</i>	-	-	-	38677	103846
<i>Total</i>	22,94,426	13,49,926	12,73,130	24,36,657	38,21,745

Amount spent on Library books and journals is given in 4.3.4

4.1.4 Does the institution provide facilities like common room, separate rest rooms for women students and staff?

Yes.

☞ We have separate room, with completely renovated washroom for ladies staff members in the common staff room.

☞ Completely renovated separate rest room facilities are available for the ladies in the office staff.

☞ There is a separate ladies room with attached rest room.

☞ There are 3 sanitary blocks for ladies in the college located on mezzanine floors.

☞ Separate rest room facility for ladies is available in the library too.

4.1.5 *How does the institution plan and ensure that the available infrastructure is optimally utilized?*

- College working hours are 07:00 hrs. to 18:30 hrs. During this time the classrooms, laboratories, reading hall etc. are used to the optimum level.
- Our computer science laboratory is shared by Mathematics, statistics department and by B.L.I.Sc. & M.L.I Sc. students of YCMOU
- In the evening some classrooms are utilized by Advanced Study centre to conduct lectures. They also make use of Chemistry laboratory.
- In the evening, lectures for distance education B.Sc. I.T. are conducted.
- On Saturday evening and Sunday morning, we provide classrooms for YCMOU courses such as B. L.I. Sc. and M. L.I. Sc.
- Our Library is open from 7.00 a.m. to 8.00 p.m.
- Reading hall facility is provided on Sunday's one month prior to examinations.
- Outsiders pursuing higher studies are offered reading facility in the library during non-examination days.
- 'Patanjali Yoga Centre' is used throughout the year to conduct yoga classes.
- The NCC, NSS and sports activities are held on Sundays and during the vacations.
- Due to proximity to the railway station several agencies approach the college for conducting professional and competitive examinations on Sundays and holidays. The college authorities permit the conduct of MH - CET, Government, Railways and Bank, MPSC, Staff Selection Commission and ICFAI examinations with a view to the maximum utilization of space.
- Our college is also utilized for Municipal, Assembly and Loksabha elections.
- The open playground is used for outdoor sports activities and is shared by all sister institutes.

- An open-air theatre is best utilized for the activities like Annual Social gathering. Otherwise this space is used by the students to relax, discuss and study.
- “Thorale Bajirao Peshave Sabhagruha” is used for the centrally organized programs like Seminars, Conferences, Workshops, and Inauguration and Felicitation programs through out the year. This auditorium is used by all sister institutions on the campus.
- Conference hall is used for HOD meetings, Committee Coordinators meetings, LMC meeting, QAC/IQAC meetings, meetings with the Delegates, for interviews of candidates and for conducting university examinations.
- During Examination time staff room is used for conducting college examinations.

4.1.6 How does the institution ensure that the infrastructure facilities meet the requirements of the differently-abled students?

Our college is only Science Faculty College and generally differently-abled students do not opt for science courses. In future if we get such students, we are ready to provide required facilities.

4.2 Maintenance of Infrastructure

4.2.1 What is the budget allocation for the maintenance of (last year's data)

DESCRIPTION	2008-2009	
	Aided	Unaided
Land	N. A. As the land belongs to VPM.	
Building Rent	5.5 Lakhs	1.3 Lakhs
Furniture	2 Lakhs	10 Lakhs
Lab. Equipmenmts	2 Lakhs	10 Lakhs
Computer	1 Lakh	
Vehicles	We hire vehicle whenever needed.	

4.2.2 *How does the institution ensure optimal utilization of budget allocated for various activities?*

The college uses its funds in the best possible manner. According to the allotted budget, Heads of the departments purchase equipments / books after discussing with other teachers in the department. In order to have the best utilization of funds, the college has an internal audit mechanism. Budget allocation is also done for various activities like sports, library, cultural etc. Budget sanction is given by LMC. All Coordinators plan in such a way that funds are utilized to maximize the benefit of stakeholders.

4.2.3 *Does the institution appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained*

Yes, the institution appoints staff for maintenance and repair.

- Annual maintenance contracts have been signed, especially for the maintenance of sophisticated instruments.
- Regular practice of maintenance of Library books by library staff is exercised.
- One person is appointed for maintenance of computers and additional help is available from service centre of VPM.
- Our own staff under supervision of the concerned Head regularly maintains laboratory equipments.
- College staff does regular internal checking and normal maintenance.
- Other repairing work such as Repairs of furniture and fixtures, Cleaning up of water tanks, Plumbing, electrical fittings is taken care of by contractor who is associated with the VPM on a regular basis. He looks after regular maintenance.
- Additional staff is appointed for cleaning of the building and campus.

4.3 *Library as a Learning Resource*

4.3.1 Does the library have a Library Advisory Committee? What are its major responsibilities?

Yes. Library has Library Advisory committee of 8 members including the Principal, two Vice Principals, four senior teachers and librarian.

The Committee1) Brings better understanding of the role of the library among users.2) Helps in book selection. 3) Helps the librarian to frame the policies. 4) Makes provision for sufficient funds for procurement of books and Journal Subscription.

4.3.2 How does the library ensure access, use and security of materials?

A) Access is ensured by:

- ❑ Giving open access to Postgraduate students and Staff members, and close access to under graduate students.
- ❑ Providing OPAC (On-line Public Access Catalogue): Entire library collection is automated so that users can easily access the information related to availability and status of documents.
- ❑ 'New Arrival' Display: The newly added collection is displayed for a period of seven days for wider publicity through the 'New Arrival' display board as well as through OPAC software.

B) Use of material is ensured by:

- Book Bank Facility: The library has introduced book bank facility for economically backward users.
- Providing books and other information sources to the students participating in competitions, appearing for competitive examinations and for paper presentation.
- Arranging book exhibitions.

- Attending Short range as well as Long range reference queries.
- Providing a computer in the library for Web OPAC search.

C) Security of material is ensured by:

- Daily cleaning of library flooring, dusting of books, Journals
- Taking Library data back up everyday at the main server.
- Using the treatment of pest control for security of library materials from termites and white ants.
- Cleaning cupboards, shelves during Stock verification.
- Periodic survey and binding of damaged books.
- Issuing the books by swapping of smart cards.

4.3.3 What are the various support facilities available in the library? (computers internet, band width, reprographic facilities etc.)

a.) *Computer Facility*

- In the central library we have, 1) Two computers for students, out of which one is for OPAC search and other for internet search or CD- search. 2) One computer for the faculty. 3) Four computers for Library staff.
- In the IT library we have four computers and in the Biotech library we have five computers for students.

b) *Internet facility:* All computers are connected with Internet connection and internet facility is available free of cost to the students and teachers. There is LAN connection and entire college campus is Wi-Fi.

c) *Reprographic facility* is available in the library for staff members and for students reprographic centre is available in the campus.

4.3.4 *How does the library ensure purchase and use of current titles, important journals and other reading materials? Specify the amount spent on new books and journals during the last five years.*

Access to current and comprehensive information is important to improve teaching and learning activities.

- ⊞ The publishers' catalogue and book reviews received in the library are periodically circulated to the concerned department. The recommended books are received on approval through local vendors.
- ⊞ The library receives books on approval from local vendors on regular basis. The books are displayed for a period of one week in the library and the concerned faculties are informed about the arrival.
- ⊞ The list of new additions is circulated to individual departments. This enables the users to know the current titles added in the library and also enhances their use.
- ⊞ The Journal collection is regularly updated.

Details of amount spent on new books and journals during the last five years (in Rupees):

YEAR	2004-05	2005-06	2006-07	2007-08	2008-09	TOTAL
Books	1,66,066	1,50,902	2,33,306	2,36,065	3,06,428	10,92,767
Journals	15,600	3,300	23,378	29,000	46,950	1,14,928

4.3.5 *Give details on the access of the on-line and Internet services in the library to the students and faculty? (hours, frequency of use , subscriptions, licensed software*

etc.,).

We have seven computers in the library. All computers are having MS-Office licensed software. Our entire campus is Wi-Fi. All PC's in the campus are connected through LAN. We are using 2GBPS lease line for internet.

We have 5 paid databases namely J-STOR, ProQuest, CMIE, Manupatra, Art Stor. We also have 7 Open Access databases namely Open J-Gate, DOAJ (Directory of Open Access Journals), DOAR, SSRN (Social Science Research Network), SSIG (Social Science Research Gateway), ERIC (Education Resources Information Center) and Pub med. Students can access the e-resources anywhere from the college campus.

4.3.6 *Are the library services computerized? If yes, to what extent?*

Yes, the entire functioning is automated with Libsuite software. Cataloguing, Circulation, Housekeeping (For stock checking) and Serial control sections are computerized. The circulation of books is automated with bar-coding technology. The multilingual search of entire library collection is accessible to the users through Web OPAC. The article indexing of important periodicals has been computerized and is accessible to the users. The processing of books with barcode labels is taken up through the software.

4.3.7 *Does the institution make use of INFLIBNET / DELNET/IUC facilities? If yes, give details.*

No, but we have five paid databases and seven other databases given in 4.3.5

4.3.8 *What initiatives are taken by the library staff to enrich the faculty and students with its latest acquisitions?*

The library periodically adds new collection in terms of books, journals and other

reading materials. To enhance the publicity and usage of the newly added collection, regular display of new arrivals is taken up. The individual departments are periodically informed about the new arrivals and the list is circulated. The new arrivals are displayed in the WEB-OPAC. Occasionally library conducts book exhibitions.

The Bio-tech department has formed Journal club to create an ambience of knowledge acquisition and sharing.

4.3.9 *Does the library have interlibrary borrowing facility? If yes, give details of the facility*

Yes. On the campus there are 5 libraries including our own science college library. These libraries are interconnected by fiber optics. By using the LAN, teachers and students can demand the books from other colleges.

Our library provides the books and information to the educational institutes and teachers around Thane. It is the value added service provided by our library with no extra cost.

4.3.10 *What are the special facilities offered by the library to the visually- and physically- challenged persons?*

If any such student is admitted we will plan and provide necessary facilities

4.3.11 *List the infrastructural development of the library over the last two years.*

The additions in infrastructure for last two years in Library are, i) Six new steel cupboards ii) Two Computers iii) Notice boards iv) Three Laser scanners v) One

colored Laser printer vi) One web camera vii) Water facility along with Aqua guard
viii) Special Identity -card printer, I-card Activation machine, separate PC for Icards.

4.3.12 What other information services are provided by the library to its users?

- We provide referral services to the students.
- Newspaper Clipping Service
- Bibliographic Compilation on demand
- Resource Sharing
- CAS(Current Awareness Service)

We have prepared *Bibliographic Union Database of Public Libraries in Konkan Area*. This database is available on [www. granthalaya.org](http://www.granthalaya.org). At present 8 libraries have participated in this. Around 3,44,900 books records available on this site. Through this website anybody can find out the book of their relevance from the participated libraries.

4.4 ICT as Learning Resources

4.4.1 Does the Institution have up-to-date computer facility? If yes, give details on the available hardware and software (Number of computers, computer-students ratio, stand alone facility, LAN facility, configuration, licensed software etc.)

The Institution has up-to-date computer facility. The details of the available hardware are as follows:

Processor	Celeron	Pentium	Intel	AMD	Total
No. Of Computers	30	108	14	04	156 [#]

Out of 156 PCs, 153 are available for students.

Number of computers : 156+22^{\$}

Stand alone facility : 2

^{\$} denotes thin client PCs

Computer – Student Ratio : 1:1*

* The ratio is for computer Sc/I.T. students

LAN facility : Yes

Licensed Software – Operating System -Microsoft Windows XP,
Office Suite – Office 2003, Microsoft Visual Studio 6.0, E-Trust Antivirus

4.4.2 Is there a central computing facility? If yes, how is it utilized for staff to students?

Yes. We have centralized Server Room where servers for Students' Database, Payroll, Finance, Web server, MKCL Server, Library, and Security Gate are kept.

They are common for all colleges in the campus. We have Thin Clients in office of every college on campus. Any office person can also access the server data from PC connected to LAN from any where on the campus.

Students' database consists of information of students admitted from year 2005-2006 while Payroll, finance servers consists of respective information from the same year. We have customized software, developed according to our needs.

4.4.3 *How are the faculty facilitated to prepare computer-aided teaching/ learning materials? What are the facilities available in the college for such efforts?*

All the departments have computer facility. We have 6 LCD projectors, 2 laptops, 3 Overhead projector, 1 Slide Projector which are utilized by the teachers for certain topics or whenever required

4.4.4 *Does the Institution have a website? How frequently is it updated? Give details.*

We have website which is common for all schools and colleges belonging to our management (www.vpmthane.org). This site consists of information which is common for all school / colleges of VPM. Every institute is having its own link on this site. It is updated periodically.

4.4.5 *How often does the institution plan and upgrade its computer systems? What is the provision made in the annual budget for update, deployment and maintenance of the computers in the institution?*

Whenever there is requirement according to the newly designed syllabus or as per the need of college, computer systems are updated. Hardware engineers are recruited by the management and they take care of all computers on the campus.

4.4.6 *How are the computers and their accessories maintained? (AMC etc.)*

Our management has appointed Hardware Engineers to take care of day-to-day

complaints regarding PC's of all colleges on the campus. We don't have any AMC with any foreign bodies. Our Engineers remain present on the Campus from morning 07.00 a.m. to 11.00 p.m. in shifts. We have also appointed one technician in IT lab that attends call from all the departments of our institute.

4.5 *Other Facilities*

4.5.1 *Give details of the following facilities:*

- a) Capacity of the hostels (to be given separately for boys and Girls)

Students in our college come from neighboring areas; hence the need of hostel does not arise.

Occupancy N.A.

- b) Rooms in the hostel (to be given separately for boys and Girls) N.A.

- c) Recreational facilities :

✧ Newspapers & periodicals are available for reading in the Library.

✧ Our sister institute Joshi - Bedekar Arts & commerce college located in the same campus has started film society through which we screen many films. Our students can enroll as member of this society.

✧ We have beautiful campus and well-maintained botanical garden. We also have 'Jnanapath' and open theater where students can spend their leisure time and at the same time observe different trees and various butterflies on the campus.

✧ VPM organizes musical programmes through Disha Vyasapeeth once in two months, which can be enjoyed by our staff and students.

- d) Sports and Games (Indoor and Outdoor) facilities

⌘ Our college has a physical education centre, commonly referred as Gymkhana, which is renovated two years back. In the gymkhana, two tables of "table

tennis” and four carom boards are placed with sufficient light arrangements. We have enough number of Chess- boards. Gymkhana is open to students between 08:00 a.m. to 06:00 p.m.

⌘ For outdoor games like Football, Cricket, Kho-Kho, Kabbadi the college has a ground in the campus. We book grounds; courts etc. elsewhere like Dadoji Konddeo Stadium for badminton, Railway Officers’ Club for tennis practice and matches.

⌘ The outstanding sportspersons are provided special coaching sessions by different coaches to improve their standards. The college tries to give maximum help in all respects including finance, and traveling allowance/ daily allowance to all participants. The college sends the teams for participation in sports to have a good exposure.

e) Health and Hygiene (Health Care centre, Ambulance, Nurse, Qualified Doctor) (full time/ part time etc.)

- ♣ First aid boxes, are available on all major places and are regularly checked and medicines are replaced. So basic medication is provided as and when required.
- ♣ Whenever need arises students, teachers and non teaching staff are referred to Dr. V. V. Bedekar’s clinic for medical help.
- ♣ For psychological counseling we take help of our past student Dr. Anand Nadkarni a well-known psychiatrist & founder member of IPH.
- ♣ Our staff academy arranges Health check-up camps for teaching & non teaching staff.

4.5.2 *How does the institution ensure participation of women in intra-and inter-institutional sports competitions and cultural activities?*

Sports Activities:

Lady teacher for physical education is appointed to look after Gymkhana activities. She personally guides the girls and motivates them for participation in sports activities. For maintaining good physical and mental fitness, guidance is given to women students regarding health, diet and cleanliness in association with WDC. The participants are given practice and encouragement. They are given some concession in attendance and missed practicals are rearranged. The merit holders are given the certificates of merit and cash prizes. Participants are given T.A. / D.A. More and more participation and better performance of girls in sports show the changing trend in society.

Special achievements (University level competitions)

- In the year 2005-06 girls' team secured i) *GOLD Medal* at the Thane district level inter collegiate Table Tennis (T.T.) competitions and ii) '*GOLD Medal*' at Divisional level T.T. Tournaments held at Nasik.
- Cadet Manasi Godbole of S.Y.B.Sc. received Sahara India scholarship of Rs. 12000.
- Ms Snehal Sagwekar secured Silver Medal in TAEKWONDO Competiton 2007-08 organized by University of Mumbai.
- Many of girls secured 1st or 2nd positions at various intercollegiate events like Firing, Yoga, Swimming Karate etc.

Cultural activities

Every year in the first month of college (June/July) the Principal and Cultural Coordinator appeal all students, especially girls to participate in all extra curricular activities. In last 5 years there was lady secretary of cultural association. and even our G.S. was a girl. Girls are prominently participating in activities of

literary association and dramatics.

Special achievements of women students in cultural and literary events in last 5 years.

- *Ms Srushti Ankolikar* won five prizes in various intercollegiate Essay competitions held in 2004-05
- *Ms Priya Marathe* is playing a role in marathi T.V. serials. She is also recipient of the award “Fresh face of the year 2005” by ZEE Marathi Channel.
- *Ms. Vinantee Mhatre* got three prizes in the year 2006-07 and seven prizes in the year 2007-08 in various intercollegiate competition .
- *Ms Devayani Deshmukh* acted in the Marathi film “Gojiri” directed by our past student Mr. Viju Mane.
- *Ms. Akshada Koli* bagged eleven prizes in various intercollegiate competitions in the year 2008-09.

Our girl students are always ahead in participating various activities and they won many prizes in the intercollegiate events like Rangoli, elocution recitation, drawing, painting, personality development, ball dancing, story telling and quiz

4.5.3 *Give details of common facilities available with Institution (Staff room, day care centre, common room for students, rest rooms, health centre, vehicle parking, guest house, Canteen, telephone, internet cafe, transport, drinking water etc.)*

- **Staff room** : Our staff common room on the ground floor (covering 635 sq. ft. area) is renovated with separate room for ladies staff of (126 sq. ft. area) having attached toilets and washbasins. We also have separate staff room in every department with computers and net connectivity. There are separate rooms for HODs having computer with net facility. In each department lab-assistant has separate room with networked computer. We also have additional staff room on the 2nd floor. There is separate room for non-teaching staff.
- **Day care centre**: No.
- **Common room for students**: There is common room for girls having attached toilets with washbasins. It covers 386 sq. ft. area
- **Rest rooms** : There are 28 rest rooms in the college of which 16 are for Ladies.
- **Health centre** No separate health centre.
- **Vehicle parking** is available only to staff members. Till last year we had open parking but this year management is providing closed parking space. We allow disable students to park their vehicles in the campus.
- **Guest house**: No. when needed, arrangement is made in the best available hotel in Thane.
- **Canteen**: In the campus there is a sophisticated canteen, which caters to the various requirements of the staff and students. The canteen is conveniently located and provides a range of food items at affordable rates to students.
- **Telephone**: We have three telephone connections from MTNL. All departments, office, library, other colleges on the campus, gates, security and canteen are connected with intercom. Also we have PCO facility in the campus.
- **Internet café**: Computer and Internet facility is available free of charge for all students and staff members for 24 hours from the last three years. Our campus

has all the latest and the greatest; Wi-Fi internet all over the campus. Hence internet access is very easy, and is made available free of cost.

- **Transport:** Our College is located very near to railway station and Bus stand hence separate transport facility is not required.
- **Drinking water:** Water cooler is installed in the corridor on the first floor for students. We provide purified water by installing aqua guard in all the departments and in the common staff room.

4.6 *Best Practices in Infrastructure and Learning Resources*

4.6.1 *What innovations/best practices in ‘Infrastructure and Learning Resources’ are in vogue or adopted/adapted by the institution?*

Our Management Vidya Prasarak Madal is enthusiastic to identify and introduce new courses in the college campus and to provide the necessary infrastructure for quality sustenance. Best practices in infrastructure adopted/adapted by the institution are as follows:

- ❁ Continuous improvement of infrastructure and learning resource development to create an optimum-learning ambience.
- ❁ Our campus has all the modern and technically advanced amenities. We have Wi-Fi internet all over campus. Hence internet access is very easy, and is made available free of cost.
- ❁ To cope up with the modern educational requirements VPM has installed Video conferencing facility in our college campus.
- ❁ In the College, we have integrated the Access Control System with our Entrance Control System i.e. Tripod System & Vehicle Entry Boom Barrier. All employees’ personal information is in application server & also resides on the smart cards used by the students and employees. For the visitor a separate tripod lane has been created. When a visitor reports to the security in-charge, the personal details of the visitor are fed in the database. The security then issues a one-day entry card for the

college premises.

- ✿ In the campus we have spacious canteen having area of 400 sq meters. Care is taken to provide hygienic food.
- ✿ Vidya Prasarak Mandal implements a programme of tree plantation on the campus every year on 1st August, which is the foundation day of VPM. Tree plantation programme helps to keep the campus pollution free.
- ✿ In our college office we use Linux. All computers are connected in LAN.
- ✿ Library plays an important role in academic development of the institution. Our college library is shifted to third floor with expanded area. Reading hall is having capacity to accommodate 150 students. The library is quite airy and having sufficient sunlight so tube lights are not required during day, hence there is lot of energy saving. We have separate libraries in IT & Biotech departments with computer & internet connectivity.
- ✿ Adequate washrooms are provided to teaching, non- teaching staff and students.
- ✿ There is separate room for our non-teaching staff.
- ✿ Suggestion box is kept near office as well as in the library.
- ✿ Dustbins are kept on each floor in the corridors, in the ladies room, in gymkhana, in staff common room and in all the departments.
- ✿ First Aid boxes are kept in all the departments, in the gymkhana and in the office.
- ✿ We have, i) an open-air stage which is constructed in the year 2004-05 where we conduct annual social gathering. ii) Conference hall to conduct meetings and Workshops for office staff which has capacity of 25 people. iii) Amphi-theater “Patanjali” of the capacity of 170 people. iv) Auditorium to conduct Seminars/Workshops, which has the capacity to accommodate 300 people.
- ✿ Our college has a Gymkhana, which is renovated two years back. For outdoor games like Football, Cricket, Kho-Kho, Kabbadi the college has a ground on the campus. The area of the playground is 8394sq.meters.
- ✿ Plasma TV is installed in reception area for running clips of College Information for visitors and important programs / emergency news can be viewed.

B. N. Bandodkar College of Science, Thane

The development in the infrastructure facilities in the college after the first accreditation may be summed up as follows:

PARTICULARS	AT 1 ST ACCREDITATION AUG 2003	AT REACCREDITATION 2009
Total Constructed Area	4856 sq m.	5920 sq m
Lecture halls	10	19
No. of laboratories.	12	15
Library Space	270 sq m.	359 sq m
Auditoriums in the Campus	1	6
Open air stage	-	1
Library Books + Journals * paid data bases	15552+12	19583+17+5 *
Gymkhana space	100 Sq. m	125 sq m.
Office space	172 sq. m.	290 sq. m.
HOD cabins	8	10
Sanitary blocks/rest rooms	12 22	16 28
Yoga area	Nil	175 sq. m.
Desktops/laptops # thin clients	30	155+2+22 [#]
Printers	08	16
Reprographic machines	01	02
LCD Projectors +OHP	1+1	6+4
Slide projector.	1	1
Scanners	2	5

1. What were the evaluative observations made under Infrastructure and Learning Resources in the previous assessment report and how have they been acted upon?

The evaluative observation made under Infrastructure and Learning Resources in the

previous assessment report is:-

The number of subscribed Indian Journals needs to be increased and few international Journals are also to be provided in the Library.

Action taken:

	At 1 st accreditation	Present data
National Journals	07	37
International Journals	00	02

We have added 30 National Journals and 2 international journals. We have subscribed five databases of which J-STOR is having 1000 to 1400 national and international journals.

2. What are the other quality sustenance and enhancement measures undertaken by the institution since the previous Assessment and Accreditation with regard to Infrastructure and Learning Resources?

Since last assessment number of new constructions and renovations has been undertaken. Beautification of the campus is done on priority basis.

New Developments:

- ★ A separate room for *Foundation Course In-charge* with all necessary furniture
- ★ **Conference Room** with modern facilities like one thin client and fixed LCD projector for any presentations is constructed in the year 2007-08.
- ★ **Record room:** Along with office renovation, record room is constructed.
- ★ **Examination room. :** is constructed along with office and is having 2 computers.
- ★ **New class rooms.** Nine additional classrooms were constructed.
- ★ **Computer Sc. lab** is constructed in the year 2008-09 & is having area of 87 sq.m
- ★ **Biotech lab** is constructed in the year 2008-09 and has area of 117 sq.m
- ★ **Microbiology lab** construction is under process. (Area is 113 sq.m.)
- ★ **Open stage** : of area 1253 sq.ft. is developed

- ★ *Amphi theater “Patanjali:* of area 165 sq.m. is constructed in the year 2008-09.
- ★ *Botanical garden* is developed in the campus.
- ★ *Reception counter* Along with office renovation work this facility is provided
- ★ *Gate No.2 with tripod security system.* is installed in the year 2008-09.

Renovations:

- ✦ *Mathematics and Statistics departments:* In the year 2004-05 extension and renovation was done.
- ✦ *Library:* In the year 2005-06 extension and renovation of library was done.
- ✦ *Botany department:* In the year 2007-08 extension and renovation of laboratory was done
- ✦ *Staff common room:* In the year 2006-07 it was renovated with separate room for ladies staff having attached toilets and washbasins.
- ✦ *Administrative office:* In the year 2007 renovation and extension of office was completed. We adopted the concept of Client-Server Architecture.
- ✦ *Principal’s Office and New cabins for Vice Principals:* work was completed in the year 2007.
- ✦ *Ladies Common Room, Gymkhana and Room for non teaching staff:* are renovated. Work was completed in the year 2006-07
- ✦ *Chemistry Research Lab.* renovation is under process.
- ✦ *Main Gate with security system.* Modifications and installation of security system was done in the year 2008-09.

Criterion V: Student Support and Progression

5.1 *Student Progression*

Students, teachers, non-teaching staff and management are four pillars of any institute.

When all these personnel work in harmony, an institution leads to high rise building of success. Our institution is progressing with strong support of all these stakeholders.

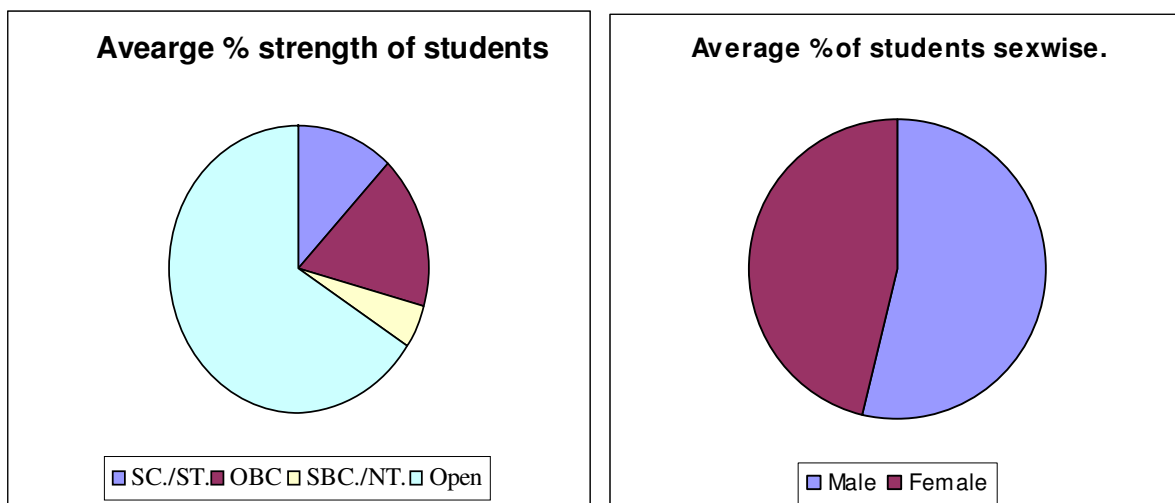
Our students are the catalysts for the institutional development. Our college is devoted to holistic task of student progression and their activities.

5.1.1 *Give the socio-economic profile (General, SC/ST, OBC etc.,) of the students of the last two batches*

All admissions are according to the guidelines of the University of Mumbai and the policy of reservation of seats for the different disadvantaged categories is adhered to.

Percentage distribution of students according to category, for last two years.

	YEAR	CATEGORY					
		SC./ST	OBC	SBC/NT	Open	Male	Female
U.G.	2007-08	12.77	15.59	5.51	66.13	55.24	44.76
	2008-09	14.33	17.33	6.82	61.53	54.16	45.84
P.G.	2007-08	20.00	10.00	-	70.00	55.00	45.00
	2008-09	15.00	10.00	10.00	65.00	55.00	45.00
Unaided U.G.	2007-08	14.63	24.90	7.91	64.43	58.10	41.90
	2008-09	12.53	24.10	11.08	52.29	50.84	49.16
Unaided P.G.	2007-08	-	8.11	-	91.90	56.76	43.24
	2008-09	9.38	28.13	-	62.50	46.88	53.13
Average		12.33	17.27	5.17	66.72	54.00	46.00



5.1.2 What are the efforts made by the Institution to minimize the dropout rate and facilitate the students to complete the course?

The drop out rate in our college is insignificant. At F. Y. B.Sc. level students transfer to other streams or professional courses. At S.Y.B.Sc. and T.Y. B.Sc. the drop out rate is negligible. We have adopted mentor system, through which teachers counsel students about their academic as well as personal problems and encourage them to continue with studies.

We conduct class tests, tutorials, and Seminars for different classes. The teachers judge the level of understanding of the student by asking questions in the classroom while teaching the subject. For mathematics regular batch-wise tutorials are conducted every week. The reduced student-teacher ratio in tutorials/practicals helps students to interact more freely with the teachers to clarify doubts and express opinions. Mathematics and Statistics departments conduct Terminal Examination in addition to class tests. Preliminary Examination for T.Y.B.Sc. is conducted for all subjects. Thus failures are less in the final examination. A.T.K.T. Examinations for F.Y.B.Sc and S.Y.B.Sc classes are conducted in the month of August. Hence students can clear the subjects in which they had failed.

Some of the teachers provide question bank to the students, and they explain how to

answer these questions by giving some model answers to build confidence in them.

5.1.3 *On an average, what percentage of students progress to further studies and for employment? Give details for last two years. (UG to PG to Ph.D and/or to employment)*

We do not have accurate official data. Nearly 50% of students go for higher studies. Few of the students take up employment immediately after graduation. Quite a large number of these students work for a year or two and then proceed to take up further studies in their respective specializations. This trend is particularly true for students coming from economically disadvantaged category, as they need to fund their education after graduation. Further, a number of students take time off after graduation to prepare for Entrance and Competitive Examinations of various higher courses

5.1.4 *How does the institution facilitate the placement of its outgoing students? What proportion of the graduating students has been employed? (average of last five years)*

Employment Cell was officially constituted in the academic year 2003-04 to help the students for placements after graduation.. The information about vacancies in various institutes and companies are displayed on the notice board ‘*Grab it.*’ We arrange the interviews in the campus.

YEAR	2004-05	2005-06	2006-07	2007-08	2008-09	TOTAL
No. of students with Successful placement through employment cell	23	22	27	18	20	110

We do not have data about students who take employment on their own.

5.1.5 *How does the institution facilitate and support students for appearing and qualifying in various competitive examinations? Give details on the number of*

students coached, appeared and qualified in various competitive examinations (Average of last five years) (UGC-CSIR-NET, SLET, GATE, CAT, GRE, TOFEL, GMAT, Civil Services- IAS,IPS,IFS, Central/State services etc.)

We arrange lectures to give complete information about all competitive examinations.

We do not conduct regular coaching classes. But there is good number of books available in our library, which is useful for preparation of these examinations.

Teachers in their individual capacity help needy students.

5.1.6 Give a comparative analysis of the institutional academic performance with reference to other colleges of the affiliating University and the university average. (Pass percentage, Distinctions, Gold medals and University Ranks, Marks obtained in relation to university average etc.(Last five years' data)

* For B.Sc I.T. Distinction is 75% & above and passing is 40% & above.

Year 2004-05

RESULT/SUBJECT	PHYSICS	CHEMISTRY	MATHEMATICS	STATISTICS	BOTANY	ZOOLOGY	TOTAL	LT.*
Distinction	03	08	08	03	-	11	33	01
I class	09	23	05	03	13	08	61	30
II class	27	55	10	11	07	14	124	02
Pass class	02	-	-	04	-	-	06	-
Students appeared	53	102	23	24	21	33	256	46
Ranks (if any)			1 st rank among reserved category.			2 nd rank in zoology.		
Passing %	77.36	84.31	100	87.5	95.23	100	91.41	71.74
University %	62.65							78.94

Year 2005-2006

RESULT/SUBJECT	PHYSICS	CHEMISTRY	MATHEMATICS	STATISTIC	BOTANY	ZOOLOGY	TOTAL	LT.*
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B. N. Bandodkar College of Science, Thane

[illegible]

Year 2006-2007

[illegible]

Year 2007-2008

[illegible]

B. N. Bandodkar College of Science, Thane

Year 2008-2009

RESULT/SUBJECT	PHYSICS	CHEMISTRY	MATHEMATICS	STATISTICS	BOTANY	ZOOLOGY	TOTAL	I.T.*
Distinction	01	16	03	05	07	06	38	-
I class	08	13	04	05	08	05	43	28
II class	17	54	13	09	-	10	103	15
Pass class	01	01	01	02	-	03	08	04
Students appeared	42	98	24	26	16	24	230	67
Passing %	64.28	85.71	87.5	80.76	93.75	87.5	82.17	70.14
University %	64.71							60.15

PG (M.Sc)

RESULT/YEAR	2005-06		2006-07		2007-08		2008-09	
	Chem	I.T.	Chem	I.T.	Chem	I.T.	Chem	I.T.
Distinction	-	05	-	01		02	-	-
I class	6	07	1	06	04	08	5	08
II class	1	07	5	06	05	06	3	02
Pass class	-		-		-		-	-
Students appeared	7	19	7	13	12	16	8	13
Passing %	100	100	85.71	100	75.00	100	100	76.92

YCMOU

RESULT/YEAR	2003-04		2004-05		2005-06		2006-07		2007-08	
	B.Lib	M.Lib	B.Lib	M.Lib	B.Lib	M.Lib	B.Lib	M.Lib	B.Lib	M.Lib
I class	17	-	21	2	11	4	11	8	18	4
II class	12	3	5	3	8	1	10	5	5	2
Students appeared	35	16	33	18	40	23	39	22	43	20
Passing %	82.08	18.75	78.78	27.77	47.5	21.73	53.84	59.09	53.48	30.00

Comparison of results indicating passing percentages with other colleges.

YEAR	2004-05	2005-06	2006-07	2007-08	2008-09
University	62.00	71.64	69.3	71.58	64.71
B.N.Bandodkar college of Science	91.41	87.53	83.39	90.54	82.17
K. J. Somaiya College	74.94	78.79	87.80	89.55	76.77
R.J. College Ghatkopar	90.50	90.30	87.00	87.00	85.00
Birla college, Kalyan	95.27	93.23	93.25	94.86	91.21
Ratnam College, Bhandup.	95.12	91.45	95.00	91.66	90.78

5.2 *Student Support*

5.2.1 *Does the institution publish its updated prospectus, handbook and other student information material annually? If yes, what is the information disseminated to students through these publications?*

- ✓ Yes. College publishes its updated prospectus every year. The prospectus gives Vision and Mission statement of the college, details of all available courses, subject combinations, new courses added, different associations, names and details of faculty from different departments, rules and regulations received from the government, fee structure, list of the endowments prizes and scholarships offered. Information about Seminars / Workshops conducted during previous years & plan for current year is given.
- ✓ Moreover every year in the beginning of the academic year, the college publishes an academic calendar, which outlines the schedule of events for the year. (A copy of the calendar is attached in the Annexure 9)
- ✓ The college has an active Website that is updated regularly.
- ✓ Annual reports of departments, activity reports of various committees and clubs, articles from students, results etc. are published in our annual college magazine "Sanyuja".

5.2.2 Does the institution provide financial aid to students? If yes, specify the type and number of scholarships/ freeships given to the students during the last academic year by the institution (other than those provided by the social welfare departments of the State or Central Governments).

- ★ Students are given incentives in the form of endowment prizes.
- ★ Needy students are given books from the book bank.
- ★ Several teachers provide financial help to needy students at personal level.

5.2.3 Give details of schemes for student welfare? (insurance, subsidized canteen facilities, special diets, student counseling support, “earn while you learn” scheme etc.)

Insurance : We have Group Insurance scheme for students.

Canteen Facility: In our campus we have sophisticated canteen, which caters to the requirements of the staff and students. The canteen is centrally located and provides a range of food items at affordable rates to students.

Special Diet: During N.S.S. camp special food is arranged for the students. Food is also provided during the practice session /precultural preparation.

Student counseling support: We have started mentor system to solve academic as well as non-academic problems of students. Career Guidance Cell and Women Development Cell are also involved in counseling.

“Earn while you learn” scheme: Our I.T. students help in the admission process and they are paid for their services. Zoology department conducts bioinformatics course, some students assist for this course and they are paid for their services. Our microbiology students do internship during summer.

5.2.4 What type of support services are available to overseas students?

So far, no overseas students have sought admission to the college.

5.2.5 Give details of the placement and counseling services for the students?

- ✦ The Employment cell was officially constituted in the academic year 2003-04 to guide the students for placements. Letters from various institutes and companies looking for suitable graduates are displayed on the notice board 'grab it'.
- ✦ Cell has arranged campus interviews for ICICI Prudential Life Insurance, Apex, Patni, Wipro, and L&T among others for students. In addition, faculty members who are associated with organizations and industries regularly help students to get placements. During last 5 years, 110 students have been employed through this cell.
- ✦ The Employment cell arranges lectures by eminent persons to communicate latest developments and avenues available in different fields.
- ✦ Our teachers give the complete information about future options available after graduation. Departments arrange lectures by experts to explain the scope of the subject.
- ✦ Defense departments (Army, Navy, air force and paramilitary forces) forward their information packages to our college for entry in defense services. Our NCC officer conveys this information to NCC students.

5.2.6 How does the institution encourage and develop entrepreneurial skills among the students?

- ❖ The promotion of self-employment is one objective of the employment/Career Guidance Cell and towards this end the Cell conducts various lectures.
- ❖ Departments of Zoology, Information technology, Biotechnology and Microbiology arrange industrial visits/research institute visits which are useful for the motivation to develop entrepreneurial skills among the students.
- ❖ Our T.Y. B.Sc students from Botany study applied subject Horticulture that is

useful for self-employment.

- ❖ Our T.Y. B.Sc students from Zoology, study applied subject Fishery Biology. It is included in syllabus with the intension that students can continue this as their profession after graduation.
- ❖ Training in various disciplines such as landscape gardening, Mushroom cultivation, preparations of jams, pickles etc is given so that students become capable of starting their own home industries.
- ❖ Alumni association helps needy students in this matter. Some of our alumni are in the field of dramatics and films, who have helped students by directing dramas for various competitions and even giving chance for acting in a movie.

5.2.7 *Does the faculty participate in academic and personal counseling? If yes, give details on services provided during the last academic year?*

- Most of the faculty members sort out emotional as well as career related problems of students.
- From the year 2004-05 our College has implemented the concept of mentoring the students. All the students of a particular subject are assigned to different teachers, teaching that subject. The mentor-teacher relationship helps students to solve academic as well as non-academic problems.
- Career guidance cell and Women development cell are also involved in counseling. In certain cases students are advised to seek help from specialist. In some matters we take help of our past student Dr. Anand Nadkarni who is well known Psychotherapist.
- Faculty guides the students to select proper career option after graduation.
- Different clubs arrange lectures to make students aware of fields, which they can pursue after graduation.

- Flex boards displaying career options are showcased at prominent places in college.
- Statistics department has distributed handbills explaining various careers in Statistics. We also arrange lectures for 12 standard students to explain various career options available after 12th and B.Sc.

5.2.8 *Is there a separate guidance and counseling centre for women students? If yes, enumerate the activities of the centre.*

Yes. Women Development Cell (WDC) is established to meet the special requirements of girl students. The Cell looks into specific grievances of women. WDC organizes lecture on various topics, which are informative for the women.

5.2.9 *Is there a Cell /Committee constituted for prevention/ action against sexual harassment of women students? If yes, detail its constitution and enumerate its activities (issues addressed during the last two years)*

Yes, we have Women Development Cell, which was constituted in the year 2004-05, according to University guidelines to look after such problems. The organizing committee of WDC comprises of the Principal of the college as the Chairman, LMC female teacher member as the co-ordinator, a representative of women students and non-teaching staff, and a representative of male students and teaching staff. It helps to solve problems faced by female by arranging programs suggested / supported by the government and university of Mumbai. It arranges lectures and discussions for increasing legal awareness among the female teachers and students to strengthen them to fight against any kind of injustice caused due to gender bias.

Some members of WDC have participated in different Seminars/ orientation / training programs organized by WDC, University of Mumbai for making them aware of various issues related to women safety, empowerment, and self reliance.

We have an anti ragging committee too. We can state proudly that in our college, incidents of sexual harassment towards women students are nil due to the disciplined, well cultured behaviour of students and teachers and security on the campus.

5.2.10 Does the institution have a grievance redressal cell? If yes, what are its functions? Detail the major grievances redressed during the last two years.

- Yes. The grievance redressal committee was formed at the beginning of the year 2002-03.
- Student's problems are discussed in Students' Council Meetings. Decisions related with planning, coordination and execution of extra curricular activities are taken through Students' council.
- The college also has an active B.C. cell to resolve the grievances of students and teachers belonging to reserved category.
- The college maintains a very healthy atmosphere and believes in family culture; hence no major grievance is reported during the last two years.

5.2.11 Is there a provision for acquiring computer skills / literacy for all students, in the curriculum? If yes, give details on how it is imparted, and level of proficiency.

Yes. We have computer related courses in our curriculum but many students from this generation are computer literate before they join the college.

We have computer related courses incorporated in the Mathematics at T.Y. B.Sc. level, and in Statistics at F.Y. & T.Y. B.Sc level. Zoology students use computers for Bio-statistics and Bioinformatics practicals. Physics students learn C⁺⁺ programming at T.Y. B.Sc level.

We have Computer Science and Information Technology courses.

For other subjects when students do project work, they use computers.

5.2.12 *What value-added courses are introduced by the institution to develop life skills; career training; community orientation; good citizenship and personality development of students?*

- A value-based education implies inculcating certain values through the academic and nonacademic programmes of the college for the overall growth of the students. With this as an objective; the various associations organize programmes that teach cooperation, social responsibility, which helps in widening the mental and emotional horizons of the students.
- Slum Studies, Environment Studies, Gandhism and Human Rights are offered at F.Y.B.Sc. as part of the Foundation Course. As part of the curriculum, students visit some organizations and even conduct surveys related to their subjects. Bio-ethics and healthy practices are given enough weightage while teaching various science and technology related subjects.
- Our college is associated with Vivekananda Kendra Thane branch. Voluntees of Vivekanand Kendra explain the “Thoughts of Vivekananda” to our students by display of various photographs and books. They also conduct essay competitions and examinations for our students.
- All Our functions begin with lighting of lamp followed by “Saraswati Vandana”. This teaches to respect our Indian traditions.
- Extension and outreach programmes organized by NCC and NSS units of college inculcate discipline, social awareness and responsibility while developing the personality.

5.2.13 *How does the institution ensure safety and security of the students, faculty and the institutional assets?*

B. N. Bandodkar College of Science, Thane

- In the College, we have integrated the Access Control System with our Entrance Control System i.e. Tripod System & Vehicle Entry Boom Barrier. All employees' personal information is in application server & also resides on the smart cards used by the students and employees. For visitors a separate tripod lane has been created. When a visitor reports to the security in-charge, the personal details of the visitor are fed in the database. The security then issues a one day entry card for the college premises.
- At our college entrance there are security persons, around the clock, appointed by our management.
- Our laboratory staff look after safety of the labs.
- All our laboratories have fire extinguishers.
- Inverter facility is available for office, which is useful in situation of load shedding.
- All students are covered under group insurance scheme.
- College building along with infrastructure is insured.
- In chemistry and biotech laboratories gas and water pipeline are installed according to security norms.
- All classrooms/ laboratories are locked soon after lectures / practical are over.
- Entry for students is prohibited to the college terrace.
- In our campus, canteen facility is provided that ensures that students get healthy food.
- During University annual examination, police force is made available to ensure smooth running of the examinations.
- Teachers and non-teaching staff are available in the college throughout the day to solve students' difficulties, which gives them mental security.

5.3 *Student Activities*

5.3.1 *Does the institution have an Alumni Association?*

Yes. The institution has an Alumni Association “Anubandha”. But it is not registered.

The registration form for the past students is made available on line so that the past students can register from any where in the globe.

Yahoo group is created for alumini namely “anubandha@yahoogroups.com”.

i. *List its current Office bearers :-*

Since the Association is not registered we do not have specific appointments made.

ii. *List its activities during the last two years :-*

Various programmes conducted in the academic year

❖ 2007-08 are as follows.

- 1. Mr. Mahesh Temghare** an Ex-student addressed T.Y.B.Sc. Students on “*Importance of Horticulture*” on 16 Aug 2007. He also conducted several interactive training sessions during the basic course in indoor gardening arranged for our students in Aug-Sept 2007.
- 2. Mr Sushil Samant**, our Ex student who passed B.Sc (Physics) in March 2005 with distinction, after completing M.Sc, is persuing his research at T.I.F.R., guided our present students regarding practical examination. He also explained the various courses available for B.Sc physics students. The programme was held on 21st Jan 2008.
- 3. Ms. Kamakshi Nayak** Ex. student from Zoology department who completed her graduation in the year 2006-07 securing 80% doing M.Sc. in Physiology from Mumbai University and has simultaneously cleared GRE & TOFEL, guided the students on 2nd Feb2008 regarding GRE. She gave information about different

scholarships, funding organizations. She also spoke about various professional courses available after completing B.Sc. (Zoology).

4. Ms. Silvia Fernandes, our brilliant Ex. student from chemistry department who stood 1st in college in the subject of Chemistry by securing 85% marks in March 2006 and presently doing M.Sc, had an interactive session with our present students, in which she insisted on the need for hard work and explained how the students can make the most of left out days of the current academic year for scoring good marks. The programme was held on 4th Feb 2008.

5. Ms Mansi Bhagdeo, our brilliant Ex student from Chemistry department who passed out in March 1997 with more than 80% marks and passed M.Sc in 1999 with distinction, completed M.S. in chemistry, and also a masters degree in education, and working as education researcher at Virginia University US, guided our students about various technical formalities required to be completed for getting admitted to US Universities. The programme was held on 4th Feb 2008.

❖ **2008-09 are as follows**

- 1. Mr. Abhishek Rane** (1st in zoology in Mumbai university 2007-2008) & **Ms. Sonal Salvi** (3rd in zoology in Mumbai university 2007-2008) were invited on Saturday 13th Dec 2008. Both of them gave their precious suggestions regarding the preparation for the examination. They guided the T.Y.BSc students regarding paper writing, the time management involved in it.
- 2. Mr. Jitendra Pendharkar**, another meritorious past student from Physics Department who is presently working as a lecturer in K.J.Somaiya College was invited on Monday 5th Jan 2009, he informed the students regarding different job &

career opportunities after passing the B.Sc examination.

3 Mr. **Vishal Khot**, who is a bright past student from Chemistry department, presently working with pharmaceutical company Pfizer (Conecticket U.S.A), was invited on Wednesday 28th Jan 2009. He informed the students about the process for getting the admission in US universities. He also discussed about the courses available at those universities.

iii. *Give details of the top ten alumni occupying prominent positions.*

SR. NO.	NAME OF THE ALUMNI	OCCUPATION.
1	Ms. Smita Pethe	Industrialist, CEO,Verginia Food Products, Thane.
2	Mr. Anand Deuskar	Senior Maneger, TCS, Mumbai
3	Mr. Ram Patkar	Mayor, Badlapur Municipal Corporation
4	Mr. Jitendra Avhad	Maharashtra State MLC member, NCP Office bearer.
5	Mr. Sameer Ganu	Opthamalogist, proprietor of 'Modern Opticians.'
6	Mr. Viju Mane	Film and Drama director.
7	Dr. Sanjay Deshmukh.	HOD, Department of Life science, University of Mumbai.
8	Dr. Vidya Ramgopal	Headmistress Arab Unity School, UAE
9	Mr. Santosh Kamat	CEO, 'Deviki Foods Pvt Ltd.'and 'Kamat Hospitality Services'
10	Dr Goldin Quadros	Education officer & Interim Stat Director,WWF(India) MSO

iv. *Give details of the contribution of alumni to the growth and development of the institution.*

The College has established an Alumni Association as per suggestion of NAAC. It enables past students to maintain their links with their alma mater.

- An additional set of journals published by Indian Academy of Science, Bangalore is subscribed from the amount received as donation from past students.
- Our past students Mr. Mayuresh Dhond & Ms. Alpana Gupte have contributed a

cash prize to be given as endowment prize for excellence in the Statistics at T.Y.B.Sc.

- A camp (free of charge) about contact lens care was organized by our past students Ms. Shradha Ganu & Mr. Sameer Ganu, proprietor of the shop-“Modern Opticians.” Free trial was given to the students.
- Our Alumni Mr. Viju Mane, who is film director, guides our students for drama competitions.
- For last two years we are conducting interactive sessions between present and past students that have generated a sense of belonging among newer students as well.
- Many faculty members are past students of the college.

5.3.2 *How does the institution encourage its students to participate in extra-curricular activities including sports and games? Give details on the achievements of students during the last two years. (Institution level/ inter-collegiate / Inter-University/ Inter-state/ National/ International).*

To ensure the persistent overall development of the student during his/her academic tenure in the college, various Recreational and Leisure Oriented Activities are conducted in the college. These activities involve Literary Events, Dramatics, Fine Arts, Music, Indoor and Outdoor Sports Activities, which are incorporated in our Academic Calendar. We have hiking and tracking club which conducts adventurous treks which boost students' confidence.

- ◆ Our students participate in intercollegiate festivals.
- ◆ Our College was actively involved in the sesquicentennial celebrations of the University of Mumbai.
- ◆ The college provides daily allowance and conveyance charges to the students participating in competitions.
- ◆ The best NCC cadet and the best singer are awarded by cash prize.

The achievements of students during the last two years:

Year 07-08

❖ Sports

1. *Ms Kavita Shukla* bagged 1st position in Individual Championship in Yoga at Intercollegiate sports & Tournaments organized by Sports Department University Of Mumbai.
2. *Ms Kavita Shukla* won gold medal in Yoga competition organized by University of Mumbai, held at Pragati college, Dombivli.
3. *Mr.Krupal Kamble* Secured silver Medal in intercollegiate Best Physique Competition organized by University of Mumbai.
4. Cricket team of our college bagged trophy in intercollegiate competition under the captainship of Mr. Swapnil Ghag
5. *Mr.Sanket Sawant* secured 8th rank in gymnastics in the competitions held by the University of Mumbai
6. *Ms Mayuri Phadtare* secured black belt in 12th Maharashtra state Open Karate championship organised by Maharashtra Karate Sports association of Thane.
7. *Ms Snehal Sagwekar* secured Silver Medal in TAEKWONDO Competiton 2007-08 organized by University of Mumbai.

❖ Cultural

1. *Ms Vinantee Mhatre*

- Secured 1st place in mono acting Group A at inter collegiate cultural competition of Zone IV organized by Department of Students' Welfare, University of Mumbai. She secured 6 prizes in various competitions.
- 1st prize in acting in a competition held by Navayuvak Durga Mandal and Gangamai Sugar Industry Ltd. Ghatnandra Dist. Aurangabad.

- 1st prize in acting in 55th Drama festival 2007-08 of Maharashtra Kamgar Kalyan Mandal at Lalit Kala Bhavan, Warli Mumbai.
 - 2nd prize as Best Actress in a zonal competition Kalarag Horizon 08 held by Ramrao Adik Institution of Technology on 29th Feb 2008 and 1st Mar 2008
2. *Ms Rufina Rodriues, Ms Harshada Adkar and Mr. Sujit More* bagged 1st 2nd and 3rd prizes respectively in a quiz competition organized by SIES College Mumbai on 27th Nov 2007.

Year 08-09



Sports

- 1) Our students participated in intercollegiate competition organized by Dr. D.Y.Patil College and got the prizes
 - *Ms. Pradnya Kocharekar & Mr. Shailesh Chakravarty* got 1st place in carrom doubles competition.
 - *Ms. Komal Savla* got 1st place in carrom singles competition.
 - *Mr. Sonesh Kamble, Mr. Bhushan Prabhu, Mr. Omkar Thorat & Ms Ranjeeta Mawri* got 1st place in treasure hunt competition.
 - *Mr. Anish Kadam* 1ST place in Table Tennis (Singles).
 - *Mr. Pratik Sawant* 2nd place in Table Tennis (Singles).
- 2) Our students participated in intercollegiate competition organized by SIES College of Commerce & Economics and won prizes
 - *Mr. Vishal. Madhavi & Mr. Chirag. Kamble* got 1st place & *Mr. Ajay Gupta & Mr. Kunal. Naik* 2nd place in CARROM DOUBLES Competition.
 - *Mr. Anish Kadam* got 1st place & *Mr. Pratik Sawant* got 2nd place in Table Tennis (Singles) Competition.



Cultural

- Eighty students from our college participated in the intercollegiate competition festival “Paramount” organised by Dr.D.Y.Patil College, Nerul. Apart from winning best prizes in individual performances, our college also won the “**Best College**” title for all round performances. Mr.Pramod Patil from M.Sc. won a round trip air ticket for Bangkok, Thailand

- *Ms.Prachi Ambavane* has achieved “Visharad” in Katthak (Classical dance) from Akhil Bharatiya Gandharve Institute. She has given her performances at “Gadkari Rangayatan” Thane and “Brahmin Mahavidyalaya” Thane.
- *Ms.Shruti Shrotri* stood 2nd [Runners up] in T-shirt painting competition held at Ruia college Matunga.
- *Mr.Ganesh Kadam* and *Mr.Kaynath C.* stood 3rd in Quiz competition held at R. J.College Ghatkopar.
- *Mr.Swapnil Lambe* stood 1st in Rang de Culture competition held at Birla College, Kalyan.

5.3.3 *How does the institution involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.*

The magazine committee arranges the activities throughout the year. The wallpapers are displayed based on certain themes like poems, essays and articles on topics like bomb blasts, social issues, social discourse etc. Cartoon competition, short story competitions are arranged through this committee. Publishing the annual magazine “SANYUJA”, gives students a way to express their creative writing potential. Our management publishes a magazine “Disha” in which students’ articles are included. Students do projects on various topics and write project reports which are compiled by Science Square committee, as ‘Mini Research Project’.

5.3.4 *Does the institution have a Student Council or any similar body? Give details on its constitution, major activities and funding.*

Yes. The Principal is the Chairperson of the students’ council. The other members include Vice-Principal; NSS Programme Officer, NCC Officer men’s wing, women’s

wing, Student representatives of the various committees, the General Secretary of the students and the Gymkhana Secretary. The college does the funding. The council plays major role in planning and execution of curricular and extra-curricular programmes and redressal of grievances, if any and students' effective participation in day-to-day working of the college.

5.3.5 Give details of the various academic and administrative bodies and their activities (academic and administrative), which have student representations on them.

Student representatives actively participate in the following Committees.

SR. NO.	ACADEMIC/ ADMINISTRATIVE BODY	ACTIVITY
1	Student council	To plan and conduct various activities through out the year.
2	Departmental clubs	To plan and organize club activities.
3	Admission committee	To help candidates to fill on-line admission forms.
4	N.S.S	To volunteer activities on 15 th Aug, 26 th Jan and on college days.
5	N.C.C.	To volunteer activities on 15 th Aug, 26 th Jan and on college days.
6	Cultural committee/Dramatics/ Literary Association	To plan, organize various cultural events/Dramatic / Literary events.
7	Gymkhana committee	To plan and conduct sports events.
8	Magazine committee	To display wall papers on current issues. To collect articles for the magazine.

5.3.6 Does the institution have a mechanism to seek and use data and feedback from its graduates and from employers, to improve the growth and development of the institution?

Feedback is obtained from outgoing students when they collect their marklists.

Suggestions given by the parents during parent-teacher meetings are taken into consideration while planning the growth and development of the institution. We also consider the suggestions given by the employers, which are collected when placement cell conducts interviews. Informal suggestions given by the Alumni also help in planning institutional growth and development.

5.4 *Best Practices in Student Support and Progression*

5.4.1 *Give details of institutional best practices towards Student Support and Progression?*

The best practices adopted towards the students are:

- ◆ Placement cell.
- ◆ Career guidance cell.
- ◆ Supplementary examinations.
- ◆ Student counseling (Mentor system).
- ◆ Departmental clubs.
- ◆ Students' presentations in various Seminars held every year.
- ◆ Regular parent- teacher-Principal meetings, conducted to improve the attendance of students in class, to improve the results and to improve the overall progress of college.
- ◆ Vibrant work culture.
- ◆ Holistic and committed approach towards students' progression.
- ◆ Dedicated faculty and family culture.
- ◆ Excellent results.
- ◆ Internal Quality Assurance cell.
- ◆ Promotion of research culture.
- ◆ Extension activities, N.C.C. and N.S.S.

- ◆ Support from management.

All these activities help in supporting the students in making them good citizens with leadership qualities, which is our ultimate mission.

For Re-accreditation:

- 1** *What were the evaluative observations made under Student Support and Progression in the previous assessment report and how have they been acted upon?*

The evaluative observations made under Student Support and Progression in the previous assessment report are:-

- a) College can think of permitting students to work in industrial/ Business concerns and share their time for skill development.**

Action taken: It has to be acknowledged that Science faculty learning is a full time course with lot of emphasis on attendance, lab coursework, etc. hence it was difficult for us to allow students to take a job while learning. But every effort is made to polish the students' skills by taking them for a visit to industries, national laboratories like BARC, TIFR, IIT's etc. Some of our students work during summer vacation.

- b) More endowments/ Scholarships to be instituted to encourage financially backward students belonging to downtrodden sections of the society.**

Action taken:

We have increased the endowment prizes. The institutional level scholarships are being actively considered for encouraging financially backward students. (List of endowment prizes is given in Annexure 14)

- 2** *What are the other quality sustenance and enhancement measures undertaken by the institution since the previous Assessment and Accreditation with regard to Student Support and Progression?*

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One of the major quality sustenance and enhancement measure undertaken by the institution is the commencement of self financing courses like B.Sc (IT) 2nd division, M.Sc. (IT), B.Sc (Computer Science), B.Sc (Biotechnology) and B.Sc (Microbiology). We feel that with this single major step, we have made a quantum jump, since the previous Assessment and Accreditation with regard to Student Support and Progression.

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**Chairman Dr. Vijay Bedekar: Dynamic personality
With Vision**

Tripod Security System



Zoology Research Lab

Criterion VI



**Modern Conference
Room**



Administrative office



Inaugural lecture

Criterion VI: Governance and Leadership

Our institute has great history of “Gyan-Tapasvi” Dr. V. N. Bedekar. Following his principles and philosophy, present leadership of Dr. Vijay Bedekar, chairman of VPM and Principal Dr.(Mrs.) M. K. Pejaver provide clear vision and mission to the institution. They are following the fact that without continual growth and progress, such words, as improvement, achievement and success have no meaning. They create an environment, where people feel valued to be creative. Our leadership endorses teamwork that is the ability to work together towards a common vision, and to direct individual accomplishment towards organizational objectives. All our academic and administrative units are governed by principles of participation and transparency. As Science advances, technology develops; resulting in various modern products, but someone has to convert that technology into a product, so that it reaches all. Our leadership has taken innovative decisions to start various value based self-finance courses that make the students capable of facing global competition. Academic progress is impossible without administrative advancement. Our academic and administrative planning is progressing hand in hand. The finances of institution are optimally allocated and efficiently utilized by proper budgeting system. Our college has adopted the best practices for leadership and governance that lead to administrative and academic excellence.

6.1 Institutional Vision and Leadership

6.1.1 State Vision and Mission statement of institution and give details on how institution a) Ensures that the vision and mission of the institution is in tune with objectives of Higher Education policies of Nation? b) Translates its vision statement into its activities?

- a) The concept of a National system of Education implies that up to a given level all students irrespective of caste, creed, location or sex have access to education of a comparable quality. The National system of Education is based upon the elements like

equality of the sexes, protection of the environment and inculcation of the scientific temper, among many other elements. The Higher Education policy of the Nation aims at affordable education for all, including women and the marginalized, with an emphasis on research. We are proud to state that our Vision and Mission statement is based on the elements of National policy of Education. It says –

Vision: *Imparting quality education in science.*

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

We try to achieve our goals through the dedicated efforts of our teaching staff, cooperative non-teaching staff and a very strong and supportive management.

b) The college has planned and executed all its Academic and Administrative Reforms in tune with the vision and mission statements of the college.

- The new academic programmes are introduced to provide access to the students in frontline areas and Value-Added ad-on courses are introduced to impart the practical skills.
- Co-curricular & Extra-Curricular Activities are planned with determination to improve overall personality of the students and their active participation is encouraged.
- The programmes to inculcate values and sense of social responsibilities are planned and executed through NSS and NCC with community involvement.
- The various associations and clubs organize several activities geared to discover the hidden talents of the students and promoting their skills.
- Seminars, Workshops and lectures are conducted for quality enhancement of students and teachers.
- Academic ambience and infrastructural facilities are augmented to refine teaching

learning and research culture.

- With coeducation system both the sexes are treated equally for education.
- Empowerment of women is considered as a priority area and efforts are made to put it in reality in all Academic and Extra Curricular Activities.
- Though our college does not belong to Minority, many students specially the girls from Muslim families take admission in our college, due to homely and impartial atmosphere maintained in the college.

6.1.2 Enumerate the Management's commitment, leadership-role and involvement for effective and efficient transaction of the teaching-learning processes.

Our Management believes that coming together is a beginning; keeping together is progress; and working together is success. The management's policy is to encourage the autonomy of intellect by:

- ◆ Giving substantial freedom to the Principal who is the academic and administrative Head of the institution, to set goals and to function in an sovereign manner to fulfill these goals.
- ◆ Maintaining the proactive role, encouraging and motivating all Faculty Members, for overall academic growth and development of the College.
- ◆ Giving duty leave and T.A. to all members of institute for attending Faculty development programme.
- ◆ Providing help, support and guidance in recruiting competent and qualified faculty members, promoting research culture, maintenance and up gradation of infrastructure.
- ◆ Promoting healthy and competitive culture within the organization. Believing in 'Healthy practices lead to Healthy Institute', hence trying to incorporate new ideas, new suggestions which help us in our progress. Management's efforts are always to do better than the best.

6.1.3 *How does the management and the Head of the institution ensure that responsibilities are defined and communicated to the staff of the institution?*

- Our management has regular meetings with the Heads of all institutions in which the responsibilities of Heads of institutions are defined and explained.
- In every meeting a review of past work is taken and future activities are discussed or allocated.
- Any new decision to be implemented is first discussed with Heads of institutions; programmes are modified and implemented taking into consideration all pros / cons.
- Vice Principal is appointed by the management in consultation with the Principal and he/she performs duties as assigned by the Principal.
- Head of the institution forms various committees in consultation with the Vice-Principals to look after the various activities in the College. The same is displayed on the Staff Room Notice Board.
- Principal, Vice-Principals, Heads, Coordinators ensure that duties and responsibilities assigned to persons concerned are duly communicated.

6.1.4 *How does the Management/Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the management, to review the activities of the institution?*

The head of the institution takes regular meetings of heads of the departments and teaching as well as non-teaching staff. The Principal is available for long hours on college campus where every staff is permitted to meet her. If need arises the Principal has personal discussion with the staff members. Thus through these various meetings and personal communication the Principal collects feedback of all activities. The Principal attends and appreciates most of the programmes conducted in the college.

The management and all the heads of the institutions have regular official meetings to communicate the activities of the college. Many times the Head is in contact with

management on telephone or through e-mails. Every year on 1st August we celebrate foundation day of the management where the Heads of all institutes present the report of the yearly activities.

Local Managing committee (LMC) is a statutory body as per Maharashtra University Act to monitor the academic and financial administration of the college. A deliberation of Local Managing Committee is the mechanism by which Management gathers information about the college. Self appraisal forms of faculty members, informal feedback obtained from students, (sometimes through suggestion boxes and through members of the Students' Council) makes information available to the Head of the institution which is then communicated to the management if required. Thus through these various sources our management is always updated about day-to-day activities of our institution.

6.1.5 How does the management encourage and support involvement of the staff for improvement of the effectiveness and efficiency of the institutional processes?

Our college has an efficient internal coordinating and monitoring system. Participatory mechanisms are at work at every stage to ensure quality-lift.

- The participation of the staff is ensured in the planning stage of all teaching-learning and extra curricular activities by conducting meetings in the presence of Management representatives. The staff members participating in execution of the institutional activities are motivated and good work is appreciated in all Management functions.
- The members of a Board of Management are always available to guide us for overall development of the institute.
- As per the provisions of University of Mumbai, LMC is constituted. Academic matters and Draft of Budget are discussed in LMC and recommendations are placed before the management for policy decisions.
- Periodic meetings of the Heads of the Departments with the Principal are conducted to ensure smooth and efficient running of the institute, to prepare timetable, and to

discuss various circulars from the University.

- Meetings of the teachers with their respective Heads are also conducted to discuss the allocation of the topics to be taught, completion of the topics, setting of the question papers, preparation of the departmental timetable etc.
- Principal as well as Heads of the departments conduct meetings of the non-teaching staff members.
- In order to monitor the performance of the teachers, the college collects feedback from the students.
- There are some special committees such as Admission, Examination, Attendance; Unfair means Inquiry and Library Committee which help a lot in managing college administration.
- The management encourages the research activities by providing funding for Seminars, Workshops and Conferences conducted on campus.
- College teachers are motivated to take lead in development of college as a commitment.

6.1.6 *Describe the leadership role of the Head of the institution, in governance and management of the institution.*

Our Principal believes that; *“Trust men and they will be true to you; treat them greatly and they will show themselves great.”* Realizing that *“a successful team is a group of many hands but of one mind”* our Principal plays a very crucial role while leading the institute.

- ◆ The main aim and objective of all of us is to take the institute to the pinnacle for which academic, administrative and extra curricular activities are all equally important.
- ◆ Our head through various meetings and personal communications with staff members tries to understand the basic needs and new fields of expansions.
- ◆ In the post NAAC period under leadership of Principal we have started new courses like graduation in Computer Science, Biotechnology, Microbiology, post graduation in Information Technology, Ph.D. studies in Chemistry and additional division for Information Technology. We have applied for the new course Environment science as applied component.
- ◆ To run these new courses, well-qualified teaching and non-teaching staff is appointed.
- ◆ We have started the mini research projects for students.

- ◆ The University has sanctioned about 11 minor research projects and one major research project has been sanctioned by UGC.
- ◆ Our office is developed like a corporate office.
- ◆ Botany, Statistics and Mathematics department and library are entirely renovated and Biotechnology Department is newly built. Microbiology, Chemistry postgraduate and research laboratories are under constructions and our auditorium “Patanjali” is newly built..
- ◆ We have recently develop ‘Patanjali Yoga center’ for Yoga training.
- ◆ The Principal herself is a research guide who in the post NAAC period has guided many research students successfully and published many research papers without neglecting the office administration duties and thus set an example in front of the other staff.
- ◆ The Principal as the head of institution assumes ‘first among equals’ and works on the principles of entrustment and decentralization of responsibilities.
- ◆ She motivates the faculty to participate in national & international events.
- ◆ She ensures gender balance, team spirit and dedication in all the stakeholders.
- ◆ In the post-accreditation period the Principal has motivated the staff to take rectifying measures suggested by the NAAC Peer Team during the first accreditation.

For the fulfillment of the mission and objectives of the college, the Principal assumes that the achievements of an organization are the results of the combined efforts of each individual. Every employee is motivated to make positive inputs and gradually leads to imbibe various roles such as planner, motivator, monitor, facilitator and evaluator.

6.2 Organizational Arrangements

6.2.1 Give the organizational structure and details of the academic and administrative bodies of the institution. Give details of the meetings held, and the decisions taken by

these bodies, regarding finance, infrastructure, faculty recruitment, performance evaluation of teaching and non-teaching staff, research and extension activities, linkages and examinations held during the last two years.

- ❖ We have separate admission, examination, attendance, and calendar committees. These committees decide the entire timetable of the year, which is followed by all the staff members and various bodies of institution.
- ❖ We have LMC, College committee, IQAC which meet at least twice a year and decide about finance, college administration, new courses to be introduced and infrastructural development, staff appointment etc. in the college.
- ❖ We have committees to look after extra curricular activities like sports, cultural, literary, dramatics, magazine etc.
- ❖ The LMC consists of the members from our management, Principal & elected members from teaching and non-teaching staff. The college committee comprises of the members from our management, Principal and Vice Principal. AQAR is framed by members from our management, Principal, Vice Principal, IQAR Coordinators, some senior teachers and eminent members from society. During the meeting entire budget of the year is prepared by the secretary of LMC and is put forth for discussion and is modified after the suggestions from the members.
- ❖ During all these meetings decisions were taken to have i) a well-equipped corporate office, which was implemented and new office was inaugurated on 24th Sept. 2008 ii) to start the subjects like Biotechnology, Microbiology and Computer Science at graduate level and iii) to provide modern labs for the same. All the courses were introduced step by step and the required infrastructure is also developed. Biotechnology and Computer Science laboratories are ready while Microbiology lab is under construction.

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- ❖ A decision was taken to start Ph. D. studies in Chemistry. As soon as we received sanction from the University, we have undertaken the development of M.Sc and Ph.D labs for Chemistry.
- ❖ The Principal and Management felt the need for auditorium in every institute. New auditorium 'Patanjali' now adds to our glory of modern infrastructure.
- ❖ As we conduct Yoga training, need for the place was felt and the "Patanjali Yoga Center" is developed for Yoga.
- ❖ As soon as need for research fund was expressed by the research committee, additional budget for the research is provided by the Principal/Management though earlier, there was no separate budget for research.
- ❖ If we do not get the faculty with necessary qualifications or cast, management appoints the staff on adhoc basis and bears their salaries.
- ❖ For unaided courses too, we appoint the staff through regular interview procedures.
- ❖ Performance evaluation of teaching staff is done through self-appraisal reports and students' feed back form, while for non-teaching staff the performance reports are taken from the heads of the departments. These forms are analyzed and corrective measures are taken.
- ❖ The Heads of the Departments put forth the proposals for the Seminars/ Conferences/ Workshops and are planned well in advance.
- ❖ Minor or Major research projects submitted by the teachers are promptly forwarded to the APD section of University.
- ❖ Teachers are free to send the research papers to any journal for publication, are free to attend any Conference, Seminar or Workshop. Teachers who have expressed their desire to attend the Conferences on college campus are sent for the same.
- ❖ Management has developed the linkages at international level for various courses

out of which one is with University of Skovde in Sweden for the degree in Biotechnology.

- ❖ Some of the research guides have developed linkages for projects with other institutes like Zoology Department with Ramky, CAT and CARE.
- ❖ The University declares the dates for theory and practical examinations and entire faculty cooperate for smooth conduct of examinations. They are appointed as examiners, paper setters, moderators, chairpersons and all of them perform their duties meticulously. Decisions Related to college examination, are taken in the meetings of heads of the departments, tentative dates are discussed by taking into account the calendar, vacations etc. and then the Coordinator of examinations has full freedom to decide the exact schedule of examination, paper correction and declaration of results.

6.2.2 To what extent is the administration decentralized? How does the institution collaborate with different sections/departments and personnel of the institution to improve the quality of its educational provisions?

To improve the quality of educational provisions and administrative work the entire administration is decentralized. Almost all the activities are carried out by Administrative and Academic Committees formed from among the faculty wherein the relevant issues are discussed and appropriate decisions are taken. Decentralization ensures wider deliberations on the issues and maximum acceptance. The Principal holds regular meetings with the teaching and non-teaching staff wherein an open discussion on issues is welcome before taking a final decision. The participative decision-making ensures total support of all concerned. The office administration of the college is headed by the Office superintendent who in consultation with the Principal, co-ordinates the administrative functions. The college teaching staff and the non-teaching staff work in

harmony for attaining the goals of the Institution. The de-centralization of administration has ensured the improved participation of the faculty and students.

6.2.3 *Does the institution have effective internal coordination and monitoring mechanisms? If yes, specify.*

The Principal ensures effective coordination between all the functionaries of the institution. Based on policies formulated, objectives are laid down and plans are made, a regular follow-up is maintained, thereby encouraging greater support and coordination. The Heads of departments and teachers coordinate and plan their departmental activities and report it to the Principal for further action. The non-teaching staff also works as per the instructions of the Principal and the Office Superintendent. In QAC meetings various activities are suggested. In the IQAC meetings these points are discussed and later the plans for the activities for the forth-coming academic year are chalked out. The IQAC helps the Principal, Vice-Principal and O.S. to coordinate and monitor the various activities. The different reports such as departmental reports; performance appraisal reports, self appraisal reports, college annual reports, directives from government, student's opinion, peer reviews, suggestion box etc. become the data base for analyzing and evaluating the overall performance of the institution. This also forms the basis for the future plan of action.

Quality Advisory committee (QAC) & Internal Quality Assurance Cell (IQAC)

This Cell was established in the academic year 2003-04 and it functions on the basis of the guidelines set forth by NAAC. It works towards improving and maintaining the quality of education, identifying and suggesting new ways of using teaching aids, developing suitable infrastructure and offering suggestions for new self-financing courses. The IQAC has been involved in helping the Principal and other committees by auditing the activities and giving suggestions and measures in order to have consistency

in maintaining the quality of education. Thus, IQAC is an effective and efficient internal coordinating and monitoring mechanism.

6.2.4 Does the institution have a Grievance Redressal Cell for its employees? If yes, what are its functions? List the number of grievances redressed during the last two years.

- As per provisions of Maharashtra University Act 1994, the college constituted Local Managing Committee. Three elected members of teaching staff and one elected member of non-teaching staff represents LMC for a period of Five Years. LMC itself works as a Grievance Redressal Cell as and when necessary.
- The institution also has active B.C.cell.
- College has Women development Cell.

Any grievances are communicated to these cells and matters are sorted out.

6.2.5 How many times does the management meet the staff in an academic year? What are the major issues discussed during the last meeting?

The management meets the LMC and College Committee members at least twice a year. Management regularly conducts formal meetings with Heads of the institutions and if required the Heads of the Departments are called for the meeting. The staff members are free to meet the management members anytime in the VPM office. The chairman personally has a dialogue with newly appointed staff members. Management personnel also meet the staff informally during Seminars, annual day function, convocation day function or programmes through Disha Vyaspeeth. In the last meeting major issue discussed was the subject combinations for the new courses to be started and budget. Discussion was also held on infrastructural development of the institution.

6.2.6 Is there a Cell to prevent sexual harassment of women staff? How effective is the functioning of the Cell?

- ❖ ‘Women Development Cell’ (WDC) which is a statutory body was established in the academic year 2005-06, according to the guide lines given by university of Mumbai

on the basis of supreme court guiding in the 'Vishakha judgment', 2005.

- ❖ Though the WDC was established in year 2005, no specific incidence related to sexual harassment of women staff is reported.
- ❖ Some of the female staff members have participated in different Seminars/ orientation/ training programs organized by WDC, University of Mumbai for making them aware of various issues related to women safety, empowerment, and self reliance.
- ❖ Through WDC various lectures on women related problems are arranged.

6.3 Strategy Development and Deployment

6.3.1 Describe the procedure of developing the perspective institutional plan. How are the Teachers, Students and Administrators involved in the planning process?

Regular meetings of QAC, IQAC, LMC, college Committee, Heads of the Departments are conducted along with Principal & Vice Principal. Separate meetings are held for practical timetables. In these meetings the overall plan of activities of academic year are prepared and are conveyed to teaching and non teaching staff including office staff during meetings and through notices. The Coordinators of extra curricular activities further decide the final plans with the help of their committee members and student representatives and decide the dates, venue and other details of programmes. Many committees have separate notice board on which the notices related to various activities are displayed. Examination timetable is decided taking into consideration the vacations, holidays and University of Mumbai's convenience and is communicated to students about one month in advance. Preparation of calendar prior to commencement of academic year helps to chalk out many activities.

6.3.2 *How are the objectives communicated and deployed to all levels, to ensure individual employee's contribution for the institutional development?*

The institutional objectives are displayed at prominent places in the institution. Through various meetings and personal communications of the Principal, Heads and Coordinators, the objectives behind any programmes, action, and course are discussed and communicated. Perfect coordination through free dialogs among the employees and heads of Department, Vice Principal or Principal is maintained. Good suggestions are accepted at all levels. The management authorities are also ready to discuss the matters freely. Hence every individual accepts the responsibility of attaining the objectives and contributes to the betterment of the institution.

6.3.3 *List the different committees constituted for the management of different institutional activities? Give details of the meetings held and the decisions taken, regarding academic management, finance, infrastructure, faculty, research, extension and linkages, and examinations held during the last two years.*

- The list of committees that are operative during 2008-09 for monitoring and governing the various activities is given in Annexure 15
- Every committee has a teacher Coordinator and in many of the committees student volunteers are involved. Regular meetings are conducted for each of these committees by the teacher Coordinators.
- QAC, IQAC, LMC and College committee consist of management members, some dignitaries from social sector, teacher's representative and Heads. Issues related to expansion of subjects, infrastructure, subject combination, finance and budget are discussed in these meetings.
- Certain decisions are taken in the meetings of management with heads of the institutions. Certain decisions like starting the new courses and developing infrastructure are taken in such meetings and are followed through.

- For recruitment of faculty as per the rosters, NOC is obtained from Joint Director's office, advertisement is approved from University, regular selection body is appointed and faculty is selected.
- Recently we established the research committee but prior to that the qualified staff members were free to apply for recognitions from University of Mumbai or even from other Universities. Accordingly in last 5 years, three teachers in Botany Department and two teachers in Chemistry Department got the recognition for Ph.D and one teacher from Chemistry Department got the recognition for M.Sc. by research.
- We also give small research projects to our students for making them acquainted with research methodology.
- The infrastructural development plans for new labs are prepared by consulting respective teachers and the labs are developed accordingly.
- The teachers are also free to send major and minor research proposals to outside funding agencies. As a result, three major and eleven minor research proposals were sanctioned to different teachers.
- The consultancy and linkages are created through Zoology Department through their extensive research experience. The staff members of Zoology Department handle two projects and one consultancy.
- Examination body is a separate committee, which conducts all the college examinations and declares the results, while University examinations are conducted by the Principal as chief conductor with the help of all the staff members.
- To manage the curricular, extra-curricular and co-curricular activities in the college, various committees are formed. The work allocation of different committees for a given academic year is finalized and declared right at the year-end meeting of the previous year.

6.3.4 *Has the institution an MIS in place, to select, collect, align and integrate data and information on the academic and administrative aspects of the institution?*

- Accurate information is key part of motivation. We do have the MIS board for students and visitors.
- We have a well developed website on which we have the complete information about institution. Our website displays the information related to the courses offered, number of seats for each course, rules and regulations, faculty details, activities, IQAC reports, achievements, proceedings of Seminars published by our college, infrastructure etc.
- We publish yearly prospectus in which information related to our rules and regulations, courses, fees and endowment prizes is given.
- Our office works on Linux system, where the entire data related to students, F.A., Payroll is available on the server.
- Our results are computerized and hence are accessible easily.
- Our admissions are online hence entire data of students is easily available with PRN.

6.3.5 *Does the institution use the various data and information obtained from the feedback, in decision-making and performance improvement? If yes, give details.*

Yes. We use the feedback data in decision-making and for improvement of our performance. We collect students' feed back forms every year / alternate year in which marking is given on 5 point scale. Questions related to teachers' abilities about command on subject, language, punctuality, explanation skills etc. are asked. The data is collected, compiled and analyzed. If required the individual teacher is given advice related to performance so that improvement can be seen. Teachers give the self-appraisal reports with remarks from the head of the department. The assessment reports of non-teaching staff are collected from the heads. These reports are studied, analyzed and actions are taken or suggestion is given for improvement.

The students can put their suggestions in the suggestion box or can approach their mentor or any teacher or can come directly to the Vice Principal & Principal and can give suggestions. Students can give their opinions in student council meetings too. These suggestions are discussed with concerned people and good suggestions are adopted.

This year the feedback forms related to courses are collected from students that will be analyzed and considered for necessary action.

6.3.6 What are the institution's initiatives for promoting co-operation, sharing of knowledge, innovations and empowerment of the faculty? (Skill sharing across departments, creating/providing conducive environment, etc.)

- ◆ We have various committees formed for academic, administrative and extra curricular activities. In these committees, faculties from different departments work together. Hence knowledge, skill, experience of each of them is shared and utilized for better functioning of institution.
- ◆ We conduct interdepartmental Seminars like “Refreshing chemistry for Biologists” or “Statistics for non-Statisticians” in which one department staff shares their knowledge with other department, which proves to be beneficial to both the departments.
- ◆ Teachers from Statistics Department taught biostatistics at initial level to Zoology students. Now Zoology staff teaches the same to Biotechnology students.
- ◆ The teachers from Statistics department help the research students of other departments to analyze the data statistically.
- ◆ Teachers from Zoology or Mathematics departments take topics like immunology or Bio Mathematics for Biotech students.
- ◆ Teachers from Information Technology Department and Computer Department help in online admission procedure, web updates, results, conducting small, computer

skill courses for teaching, non-teaching and office staff.

- ◆ During the annual gathering, sports are arranged for teaching as well as non-teaching staffs that participate in all these games very enthusiastically. Many of the staff members participate in our cultural programmes and enjoy equally along with the students.
- ◆ Teachers share their expertise to guide the students in cultural events, literary programmes like essay writing, wallpaper, debates and during N.S.S activities.
- ◆ The staff members from different departments collectively come forward to guide the students during college school complex programmes.
- ◆ The institution provides a very conducive environment for all these activities by providing the necessary finance and space by making alternative arrangements for lectures and practicals

6.4 Human Resource Management

6.4.1 What are the mechanisms for performance assessment (teaching, research, service) of faculty and staff? (Self-appraisal method, comprehensive evaluation by students and peers). Does the institution use the evaluations to improve teaching/ research of the faculty and service of the faculty by other staff? If yes, how?

- Performance appraisal of the teaching staff is conducted on the basis of a range of parameters viz. self-appraisal form, student evaluation, departmental appraisal, co-curricular activities, participation in Seminars and Conferences, paper presentations, research work, etc.
- Students evaluate each teacher every two years, thereby evaluating their teaching abilities and performance. For this purpose, students have to fill up individual 'Feedback' forms for each teacher. The questions are based on various parameters like punctuality, discipline, innovative teaching aids, and percentage of interactive sessions conducted, explanation and understanding by the students, additional

information beyond syllabus, availability and accessibility, counseling etc. The data thus collected is analyzed.

- The teachers can improve upon their own performance by receiving appropriate feedback about their strengths and weaknesses.
- The assessment report is analyzed and discussed confidentially by the Principal with the concerned teacher and he/ she is guided for improving the teaching techniques.
- In self-appraisal form teachers are required to give his/ her self-evaluation of the academic and co curricular and extra curricular work done during that year. It also requires information about the papers presented and Conferences, Seminars, refresher courses and orientation programmes attended.

6.4.2 What are the welfare measures for the staff and faculty? (mention only those which affect and improve staff well-being, satisfaction and motivation)

- ✓ Distinguished staff members are felicitated in special functions.
- ✓ At retirement or after completion of 20 years of service, non-teaching staff members are given a special certificate and a memento for the recognition of their service.
- ✓ Members of non-teaching staff are given advance for festivals.
- ✓ Uniforms are provided to class-IV employees.
- ✓ Financial assistance for medical treatment (serious illness), is provided to the staff members, through contribution by staff whenever needed.
- ✓ The wards of non-teaching staff are given preference for employment in the College.
- ✓ Members can take loans from Provident Fund and VPM's Employees Credit Society. The requirement and eligibility criterion depends upon the amount of loan, purpose of loan, salary of the applicant, previous balance if any.
- ✓ The non-teaching staff have been made conversant with computers by giving them special training.
- ✓ Our management encourages non-teaching staff members to improve their academic qualifications. The college also deputes non-teaching staff members to attend

various Seminars and Workshops conducted by the Education Department, Mumbai University and Office of the Joint Director for matters related to Administration, Accounts.

- ✓ The wards of teaching and non-teaching staff are given admission to various courses on the campus.
- ✓ Every year “Satya-Narayan” pooja is arranged and retiring non teaching staff performs pooja with spouse.

6.4.3 *What are the strategies and implementation plans of the institution, to recruit and retain faculty and other staff who have the desired qualifications, knowledge and skills?*

Feeling of togetherness, appreciation of work, help in difficulties, facilities for research, and policy of prompt salary payment are the strategies to recruit and retain the faculty and staff.

- ✦ Our rosters are updated regularly, NOC is obtained from Jt. Directors office for recruitment of faculty and sanction is accorded from University for advertisement. Regular selection bodies are appointed and recruitment of staff is done. For the aided sections Government pay scales are paid.
- ✦ Once appointed, the faculty is encouraged to complete orientation courses, refresher courses as per the need.
- ✦ The faculty is also encouraged to pursue research, publish papers, submit research proposals and attend Workshops/Seminars related to syllabus.
- ✦ For the unaided faculty the management pays salary. For unaided sections those who are fully qualified are taken on scale while those who require improvement in the qualification are encouraged for the same and they are paid more than prescribed salary by the government. Financial assistance is provided to the staff even from unaided section to improve their qualification. While FIP facility is made available for the staff of aided section.
- ✦ The non-teaching administrative as well as laboratory staff is selected by regular interview procedure. They are also encouraged and supported financially to improve their skills. IT faculty gives free of cost computer training to staff.

6.4.4 *What are the criteria for employing part-time/adhoc faculty? How are the recruitment conditions of part-time/adhoc faculty different from that of the regular faculty? (Eg. salary structure, workload, specializations).*

For appointing part-time/adhoc faculty sometimes advertisement is given in local newspaper or sometimes the candidates are called for interview from the applications received by us. The governing body takes regular interviews. Selection criteria are same as per UGC norms. But if a NET/SET or Ph.D. candidate is not available then M.Sc candidates with B+ grade are selected. The candidate is appointed on consolidated salary on contract basis. If the candidate is fully qualified, after one or two years experience in our institute, candidate is given UGC scale. If candidate is not fully qualified the consolidated salary is paid but it is much higher than salary prescribed by UGC. If the candidate is found suitable reappointment is given on higher salary for next academic year with a break in service of May vacation. Adhoc teacher is permitted one casual leave per month and gets 12 holidays in the year declared by our management. Though teaching workload is same as per other teachers, the adhoc faculty is expected to be in college for 8 hrs. They are allowed to utilize all other facilities available for regular staff.

6.4.5 *What are the policies, resources and practices of the institution that support and ensure the professional development of the faculty? (Eg. budget allocation for staff development, sponsoring for advanced study, research, participation in Seminars, Conferences, Workshops, etc. and supporting membership and active involvement in local, state, national and international professional associations).*

- Teachers are permitted to complete orientation as well as refresher courses for which duty leave is sanctioned and fees for these courses are also paid. Staff members are permitted to attend Conference/Seminar/Workshop for which duty leave is sanctioned. Institution pays registration fees and TA/DA for the syllabus related Workshops.
- On our campus yearly Seminars/or Conferences are held for which the faculty is sponsored if they desire to attend. Though till now separate budget was not shown for research, all facilities required were provided. Now separate budget for research allocation is made. The required instruments, glassware, computer facilities are provided for research. We subscribe about 39 research journals in library while eight e- journals like J-STOR are available on net for free download.
- Our labs are open till late night hours for research students.
- The active involvement in the work of any association, organization, NGO is fully supported and appreciated. Rather the institution encourages such involvements.

6.4.6 *How do you assess the needs of the faculty development? Has the institution conducted*

any staff development programmes for skill up-gradation and training of the staff? If yes, give details.

As per the UGC norms the faculty is permitted to attend refresher or orientation courses. If the faculty desires to go on FIP all the necessary formalities are completed and FIP is sanctioned. For the skill development of staff, college conducts Workshops like Refreshing chemistry for Biologists, Statistics for non-Statisticians, laboratory safety, and computer literacy. In addition to this, the staff from IT department is available for teaching any new concept about computer. Every year, different Departments conduct the Seminars on specific subjects in which the faculty is encouraged to participate to increase the subject knowledge.

6.4.7 What are the facilities provided to faculty? (Well-maintained and functional office, infrastructure and other space to carry out their work effectively etc.,)

- There is a spacious staff room with adequate facilities.
- The lady staff members of the faculty have a separate retiring room.
- Each HOD has well furnished separate cabin with computer & internet and intercom.
- Each department has its own well-furnished room with facilities like cupboards, lockers, computer and intercom.
- All the departments are well equipped with computers with net connectivity, for the use by the faculty members.
- All the Vice-Principals have their own cabins for their administrative work.
- In the library there is a separate glass cabin with two computers with net connection for staff members.
- The staff members engaged in research can use our research laboratories and equipments from any department. They are allowed to seat for late night hours even till midnight to carry out their research.
- Conference room with video conferencing and Seminar hall are additional facilities at service.

6.5 Financial Management and Resource Mobilization

6.5.1 Does the institution get financial support from the Government? If yes, mention the grants received in the last three years under different heads. If no, give details of the

sources of revenue and income generated during the last three years?

(A) Yes. Our institute gets financial support from the Government. We receive the salary grants for approved teaching and non-teaching staff, non-salary grants and grants from UGC under development schemes. We are also eligible to get the grants from UGC as well as University for minor & major research projects and Seminars, which we conduct. We get the scholarship grants from Social welfare Department of the Government.

Grants received under various heading in last three years are as follows:

Year	2006-07	2007-08	2008-09
Salary	3,32,56,000	2,94,82,000	3,15,26,204
Non - Salary	-	-	-
UGC	-	1,87,272	589,560
Major Research Project	-	1,17,000	811,800
Minor Research Project	35,000	42,000	-
Scholarships	12,09,450	12,48,708	1648,699
Seminars	-	-	45,000

(B) The institution runs some permanently unaided courses. These programmes are B.Sc. with Computer Science, Bio Technology, Micro Biology and I.T. And Post Graduate programme M. Sc. I.T. The main source of income is tuition fees and other fees collected from students. The details are as under:-

Year:	<u>2006-07</u>	<u>2007-08</u>	<u>2008-09</u>
Fees collected: (Rs.)	27,66,000	43,59,000	58,42,100

6.5.2 What is the quantum of resources mobilized through donations? Give information for the last two years.

The College does not accept any donation.

6.5.3 *Is there adequate budget to cover the day-to-day expenses? If no, how is the deficit met?*

Yes. There are regular budgetary allocations for day-to-day expenses. If there is any deficit, it is borne by our management.

6.5.4 *What are the budgetary resources to fulfill the institution's mission and offer quality programmes? (Budget allocations over the past two years (provide income expenditure statements))*

✓ Salaries of aided staff are paid through salary grants from the government. Non-salary expenses are partly managed through fees and partly through management support.

✓ Salaries and non-salary expenses of unaided staff are managed through fees.

✓ We also get UGC development grants that are utilized for books and equipments.

Income expenditure statements are given in Annexures 16 & 17

6.5.5 *Are the accounts audited regularly? If yes, give the details of internal and external audit procedures and the audit reports for last two years.*

Yes the accounts are audited regularly. The auditor Mr. S. K.Kale, audits our accounts for the financial year ending on 31st March before 31st July of that year.

Audited reports for the years 2006-07 and 2007-08 are given in the Annexurea 18 & 19.

6.5.6 *Has the institution computerized its finance management systems? If yes, give details.*

Yes. The institution has computerized the entire finance management system. Our own customized software is developed with the help of competent authority.

6.6 *Best Practices in Governance and Leadership*

6.6.1 *What are the significant best practices in Governance and Leadership carried out by the institution?*

The best practices in Governance and Leadership can be summed up as decentralization of work, participation and transparency in all academic and administrative work, effective resource mobilization, best planning of development strategies, and effective finance allocations by proper budgeting system, and democratic work culture.

- All the heads of the departments, Coordinators of the committees, office superintendent, and Vice- Principal are given full freedom to take rational decisions to gear up college functioning.
- Our management Vidya Prasarak Mandal always encourages the staff and students to implement new ideas. They provide every support for infrastructural development necessary for the new need based courses that have been introduced.
- Our Management encourages the staff to attend the Seminars & Conferences and bear the expenses. Our Management conducts the following programs;
 - 14th April is observed as “*smritideen*” of our beloved president late Dr.V.N.Bedekar.
 - Foundation Day is celebrated on 1st August. On this day all the Principals of institutes run by our management present annual report of the institute.
 - “Sanskrit day” is celebrated every year.
 - As per the tradition of our management, Teachers’ day is celebrated on 5th Sept. by felicitating teachers who have completed 20 years of service in the institute.
 - Certificates/Diplomas for the courses run by the Trust are awarded in the convocation programme.
 - Our management organizes the musical concerts of eminent artist every year.
- To cope up with the modern educational requirements VPM has installed Video Conferencing facility in our college campus.
- In the Era of globalization our management has signed MOUs with California University , U.S.A. and Northern college of Applied Arts and Technology, Canada & University of Skovde located at Hogskolevagen, Sweden. Vidya Prasarak Mandal has launched VPM’s London Academy of Education & Research in London on 26th May 2009.
- The Principal has taken initiative in promoting research culture; this is reflected in the research output in several departments. Several Faculty Members are pursuing research, taking up projects, attending Seminars / Conferences and publishing papers.
- Principal as Head of institution believes in teamwork, cordial inter personal relations, delegation of authority and participatory decision making, thus functioning

in a democratic manner.

For Re-accreditation

- 1. *What were the evaluative observations made under Organization and Management in the previous assessment report and how have they been acted upon?***

There are no suggestions under this criterion.

- 2. *What are the other quality sustenance and enhancement measures undertaken by the institution since the previous Assessment and Accreditation with regard to Organisation and Management?***

⌚ In order to develop the college academically, the college management gives a free hand to the Principal and the staff.

⌚ All the staff members, teaching as well as non-teaching work very hard to utilize the available resources in the best possible manner and try to achieve excellence.

⌚ Many add-on courses have been started and accordingly infrastructural development is given the preference.

⌚ Use of ICT is promoted in administrative work for resource sharing and networking.

⌚ Character building of the students is the main agenda of management. Our leadership believes that “intelligence plus character- that is the goal of true education.”

We nurture aspirations and facilitate unremitting learning, to realize individual potential and growth. We will continue to achieve and maintain environment of excellence and growth with optimal utilization of resources. Our credo will always be excellence through innovation, compassion, ethical values and teamwork.



“Yoga” For Total Health



Welfare activity: “Satya-Narayan
Pooja”



Botanical Garden

Criterion

VII



"Cyber Safety"



Independence Day: NCC Parade



Pulse- Polio Drive

Criterion VII: Innovative Practices

Education fortifies one's soul. A quality education has the power to give the students the knowledge, skills and confidence to reach their full potential. But quality education is never an accident. It is always the result of intelligent efforts. With the help of IQAC, our institution activates the system of quality management through which institutional standard is raised to the higher level which leads to quality excellence. All the stakeholders have dreams but in order to make dreams into reality, it takes a lot of determination, dedication, self-discipline and efforts. Education, which teaches Science and Technology with the aim of economic empowerment, should also be augmented with value education. We believe in developing students who are confident and can face the challenging world. The endeavor is to inculcate a desire for continuous improvement, a sense of healthy competition, adaptability towards social responsibilities and good citizenry and finally sensitivity towards ethical and moral values.

7.1 Internal Quality Assurance System

7.1.1 What mechanisms have been developed by the institution for quality assurance within the existing academic and administrative systems?

Our college has developed mechanisms for quality assurance as stated below:

- √ Quality Advisory Cell (QAC) and Internal Quality Assurance Cell (IQAC) have been formed to audit and frame the policies towards the growth of the students.
- √ The IQAC has been actively monitoring and participating in quality assurance within the existing academic and administrative systems since 2003. The Cell has regularly assessed the process, as stated in the Annual Quality Assurance Reports (AQAR), which are submitted to NAAC every year.
- √ All our admission details, on line admission processes etc. are posted on our website.
- √ During Inaugural lectures Principal explains rules and regulations of our institute.

- ✓ Departmental meetings are regularly held to monitor and maintain quality excellence.
- ✓ Our calendar committee chalks out all activities before starting of the academic year.
- ✓ All our teachers prepare their teaching plans at the beginning of the academic year.
- ✓ Our college obtains feedback from students on the quality of education imparted by each teacher.
- ✓ Our college follows the self-appraisal method.
- ✓ The Principal and Vice Principal obtain regular updates from the Coordinators of various committees regarding various activities. Suggestions and support is provided wherever required.
- ✓ College follows policy of encouraging students and teachers for participation in Conferences, Seminars, and Workshops. Also for presenting and publishing their research works.
- ✓ Principal of the institution is available for long hours on college campus and any staff or student is free to meet her at any time.

7.1.2 What are the functions carried out by the above mechanisms in the quality enhancement of the institution?

As we are focused on imparting quality education, we audit our activities conducted during the previous year and try to go one step ahead to achieve our goals. The QAC and IQAC conduct meetings to discuss several quality enhancement initiatives to be adopted, which are implemented after discussion in the regular staff meeting.

Faculty Members undertake several quality enhancement initiatives in teaching, learning and evaluation and counsel students to improve their academic performance and overall personality. Students and teachers are encouraged to participate in Conferences, present papers and publish research work in scientific journals and remain updated on their subjects. A record of such activities is maintained and analyzed as part of quality assurance. Our yearly calendar is an excellent mechanism contributing to the quality enhancement of the institution.

7.1.3 What role is played by students in assuring quality of education imparted by the

institution?

Student is the focal point of quality assurance mechanism and plays a vital role in same.

- Students provide valuable feedback on performance of teachers. The institution analyzes their feedback and appropriate corrective action is taken wherever necessary to assure the quality of education imparted. The Students' Council is consulted for their suggestions as and when necessary. Students are given representation in various committees. Thus their opinions are always considered while planning the activities.
- Students take active part in class-wise Seminars.
- Students regularly carry out research projects, determine the need for specific studies in the surrounding areas and carry out active research and present their findings in Seminars; Conferences and symposia conducted in our institution as well as in other institutions and we also publish them in the proceedings.
- Students participate in mini research projects under our Science square activities that are aimed at inculcating research spirit among students.
- Students use ICT facilities made available by the college for their presentations in front of intellectual gatherings, which are subsequently uploaded on our Website. Students strive for enhancement in their performance. 148 students carried out 64 research projects during last five years.
- Students outshine in their studies acquiring rank positions in University.

7.1.4 What initiatives have been taken up by the institution to promote best practices in the institution? How does the institution ensure that Best Practices have been internalized?

- The college has taken pains to promote best practices in the institution. These efforts include active IQAC, regular meetings of the HODs, LMC, College Committee, students' council, committee Coordinators, and half yearly meetings of teaching and non-teaching staff. The best practices are being implemented by constant motivation, suitable scheduling of the activities and by support from our management.

- Our management generously provides seed money for all research activities, Conferences, Seminars, Workshops and finances all activities and infrastructural developments in the college. The management deputed and sponsors participation of our staff members in such programmes organized by sister institutes on the campus or any other organization.
- Academic calendar is made available on the first day of term and we make it a point to follow it strictly.
- Teachers prepare their teaching plan at the beginning of the academic year
- Parent-teacher meetings are conducted regularly and suggestions from parents are welcome and if necessary proper action is taken.
- The college has set up an anti ragging committee to tackle related matters.
- Security system at the gate prohibits the entry of unconstitutional persons.
- Our college has 17 endowment prizes installed by our management, eminent personalities, citizens, staff and past-students to encourage all round development of students. Students who secure the first position in various subjects at the undergraduate and postgraduate level are felicitated. Faculty members are also felicitated for their achievements in academics and extra curricular activities.
- All our reports related to achievements, functioning of committees, events etc. are collected via email and posted on our website. As an internalized practice all major events planned are posted on Website at least one year in advance.
- Our students avail facilities such as concession in payment of fees, exemption in fees, scholarships and free-ships. Needy students are also given financial aid through student's welfare fund or they are allowed to pay fees in installments.
- Our college has a staff academy for welfare of teachers, which conducts felicitations for achievements, send-off to retiring teachers, health checkups, personality development and educative programmes for staff and students. Our non-teaching staff union too arranges send-off to retiring non-teaching staff.
- 'Satyanarayan' pooja is performed every year to follow our Indian tradition.
- Invariable motivation, suitable planning and arrangement of the activities, approval and encouragement of good practices by the stakeholders and strong administrative support are internalizing the best practices.

7.1.5 In which way has the institution added value to the quality enhancement of students?

The institution has taken various initiatives to boost the quality of the students.

- √ The College organizes various curricular, co-curricular and extra-curricular activities to provide platform to students to showcase their talents. Our students participate in intercollegiate and University level competitions and they have bagged number of prizes in these activities. This ensures the all round development of the students.
- √ The college conducts National/ State/ Regional level Conferences/ Seminars/ Workshops every year. Apart from academic participation it encourages our students to develop the research potential. All our students are provided free of cost registration facility to attend such Conferences/ Seminars/ symposia / Workshops.
- √ Our institution encourages its teachers and students in all possible ways to take up research activities with the aim of (i)Upgrading qualification (ii)Upgrading knowledge (iii) Strengthening ties with society (iv) Keeping pace with global progression.
- √ Informative lectures by experts from reputed institutes are arranged for students to get better knowledge about various innovative fields.
- √ Various add-on courses are made available on the campus to prepare our students to meet global challenges.
- √ We follow the practice of conducting A.T.K.T. examinations in the month of August/September to improve results.
- √ Continuous evaluation of students is done by different methods.
- √ Yoga classes for students are conducted to keep them mentally and physically fit.
- √ Teachers encourage students to take research projects in different subjects.
- √ Students are encouraged to join NCC/NSS, which teach them to become responsible citizen.
- √ Computer with free of cost Internet facility is provided in all the departments and in the library.
- √ Students can avail of facility of well-equipped library which is open from 7.00a.m-.08 p.m.

7.2 Inclusive practices

7.2.1 What practices have been taken up by the institution to provide access to students from the following sections of the society

- a) Socially backward: As per government rules i) reservation policy is followed strictly in granting admissions and ii) students are provided free ship / scholarship. A Backward Class (B.C.) Cell has been constituted to resolve the grievances, if any.
- b) Economically weaker: EBC free ship is given to candidates who are eligible as per rules. Candidates who are not eligible for EBC free ship and are unable to pay full fees are allowed to pay the fees in installments. Such students are also offered financial assistance from Students' welfare Fund. Faculty members also help the students at a personal level. Book bank facility is also made available.
- c) Differently abled: Since our college is pure science college differently abled students do not opt for science courses.

7.2.2 *What efforts have been made by the institution to recruit Staff from the disadvantaged communities? Specify? a) teaching b) non-teaching*

Sincere efforts are made by the College authorities to fill the vacancies of teaching and non-teaching staff as per University rules following reservation policy. Recently a special recruitment drive for the differently abled candidates was arranged. We have three differently abled non-teaching staff on our roll.

7.2.3 *What special efforts are made to achieve gender balance amongst students and staff?*

We believe in total gender equality. A woman Principal heads our institute. Ladies head 50% of our departments. Many of our committee's have lady Coordinators. Many associations have lady secretary. Even lady general secretary was elected who managed all college activities.

Lady teacher is appointed for physical education. She guides the girls and encourages them for participating in sports activities. The student profile of the college shows that the percentage of female students is nearly 50%.

7.2.4 *Has the institution done a gender audit and/or any gender-related sensitizing courses for the staff/ students? Give details.*

Yes, we do gender audit.

We organize lectures through WDC on various gender-related sensitizing topics. WDC

arranges the programmes like discussion or Elocution competitions for students to express their views on “Gender Difference Problems”

Some noteworthy programmes arranged by WDC in last five years are:

Date	Topic	Guest
12 th January 2005	“Stress Management”	Dr.Mrs. S.A.Singh, Principal VPM Joshi Bedekar College,Thane
18 th July 2006	“Empowered Women”	Dr.Mrs. Nandini Deshmukh, Vice Principal Kirti College,Mumbai.
10 th & 18 th August 2006	“Nutritional Diet”	Dr.Mrs. Chaya Bhadkamkar, Thane.
28 th July 2007	“Pest Control & Hygiene Care”	Dr. Sandhya Mainkar, Head PC & Cannon Hygiene
28 th Nov. 2007	“Women & Law” Sexual harassment at work place & home	Mrs.Srividya Jaykumar, I/C Principal, TMC Law College,Thane
12 th Dec. 2007	“AIDS awareness”	Doctors from Rajiv Gandhi Medical College, Kalwa
10 th Sept. 2008	“Handling Stress in College Life”	Dr. Anuradha. Sovani, Eminent Psychologist and Psychotherapist.

Our NSS unit in collaboration with NGO Akshara, organizes Workshops on the topics like anti dowry, sexual harassment. By conducting such activities students of both the genders are made aware of their changing roles in the modern society.

7.2.5 What intervention strategies have been adopted by the institution to promote the overall development of students from rural/ tribal backgrounds?

Majority of the students of this college are first generation learners. They are from middle class or economically backward group. Special attention and remedial teaching in the departments ensure the academic development of such students. During the practical the number of students per teacher is less. Hence personal attention to the students is possible. The special efforts are taken to eradicate inferiority complex present in such students, by motivating them to participate in activities like Seminars, Workshops, group discussions, cultural events and drama.

Students are persuaded to participate in the social activities like NSS and NCC. NSS camps and NCC annual training camps boost their abilities and transform these rural background students to a confident individual.

Active participation in all such activities promotes overall development of rural background students and imbibes in them life skills to make them worthy to settle in their career.

7.2.6 *Does the institution have a mechanism to record the incremental academic growth of the students admitted from the disadvantaged sections?*

The incremental academic growth of the students from the disadvantaged sections is done through the analysis of the results of the students and observing their performance during lectures and practical sessions. Extra efforts are taken to improve their performance. Mentor system is also useful for developing their overall personality.

7.2.7 *What initiatives have been taken by institution to promote social-justice & good citizenship amongst its students and staff? How have such initiatives reached out to community?*

Our college has well spelt mission statement to mould students into rational thinkers, competent workers and socially aware citizens. We give Oath to all students. OATH statement is given in Annexure 20.

- Many extension and outreach activities are organized by the NCC, NSS to create social awareness and to inculcate sense of responsibility in students.
- Our college is associated with Vivekananda Kendra, Thane branch. The thoughts of Swami Vivekananda are conveyed to students through exhibitions.
- Financial assistance is extended to economically weaker and needy students.
- Sincere efforts are made for the recruitment of teachers and non-teaching staff from deprived classes.
- Reservation policy framed by the government is sternly followed during admission.
- Backward Class Cell is set up in the college.
- Constant encouragement is given to women students for participation in all activities.
- Parents appreciate good practices adopted by the college.
- Past students express their happiness about the qualities they develop during their college days and hence keep visiting institute with affection and respect.

7.3 *Stakeholder relationships*

7.3.1 *How does the institution involve all its stakeholders in planning, implementation and evaluation of the academic programmes?*

The Institution is committed to all its stakeholders for providing quality education. Hence we always try to get valuable feedback for planning and implementation of academic programmes from all stakeholders by holding meetings with parents, students and alumni. Students are involved in planning, implementation and evaluation of academic programs at various levels. There are student- representatives in many committees. Feedback is taken from students related to satisfactory completion of syllabi, level of difficulty of the curriculum, teaching methodology and the evaluation methods. Parents meetings are conducted and their suggestions are considered while planning the academic activities. Informal feedback is received from the Alumni during their visit to college.

7.3.2 How does the institution develop new programmes to create an overall climate conducive to learning?

By considering the global requirements, Institution has introduced self financing courses like Information Technology, Computer Science, Microbiology and interdisciplinary course like Biotechnology. A certificate course in “Bioinformatics” is designed and is conducted twice in a year, which is yet another way to equip students for global competencies. Departmental clubs invite eminent persons from academics and industry to speak on specialized subjects.

7.3.3 What are the key factors that attract students and stakeholders, to the institution and result in stakeholder satisfaction?

Our College has introduced several new courses as per the demands of globalization. Various add-on courses are made available on the campus. Hence wide spectrum of academic programs is available with modern infrastructure. Conducive and free student-

teacher relation is maintained, resulting in better attendance in classes leading to quality enhancement and improved results. Our results are always above University average. Transparent, healthy, coeducational and homely atmosphere attracts students from minor communities, middle class or rural areas. We offer total gender equality, exceptionally clean campus, and lack of status barriers in the staff and a sense of social obligation in the extension and outreach activities.

Our Management is a very old, trustworthy management in the city, which gives confidence to the parents for the best education.

7.3.4 *How does the institution elicit the cooperation from all stakeholders to ensure overall development of the students, considering the curricular and co-curricular activities, research, community orientation and the personal/ spiritual development of the students?*

After analysis of needs of the stakeholders, the suggestions are discussed in QAC and IQAC, HODs and staff meetings and then plans are implemented. While conducting the activities, utmost care is taken to include expertise available.

- The College organizes several co-curricular and extra-curricular activities for the overall development of the students' personality. Students are encouraged to participate in these activities for self-development.
- Blood Donation, Tree-Plantation, Yoga Course, Pulse-Polio Immunization Programme, AIDS Awareness Programme, etc. are some of the outreach activities organized by the College through the NCC and NSS units to make the students socially responsible.
- The College has Students' Council constituted as per University rules. They are actively involved in all the activities.

7.3.5 *How do you anticipate public concerns in your current and future programme offerings and operations?*

Informal interaction with the academic peers, members of the society, social organizations, market needs, students' feedback etc. are taken into account for introducing new programmes and implementing the same in a desired manner.

7.3.6 *How does the institution promote social responsibilities and citizenship roles among the students? Does it have any exclusive programme for the same?*

All the extra curricular activities like school college complex, WDC, NSS and NCC play a major role in promoting these roles.

7.3.7 *What are the institutional efforts to bring in community-orientation in its activities?*

- NCC, NSS Units jointly with NGO Hariyali conduct tree plantation & weed removal and conservation programmes.
- NSS/ NCC units conduct Activities important for society in general as Blood Donation drive, Cleanliness Drive, relief work after disaster, Anti dowry movement, Anti tobacco drive, Rally to prevent suicide, Pulse Polio drive, street play on harassment of women, opening helpline for women, World Aids Day Rally, Traffic control week etc.
- The college staff and students participate in College-School Complex activity. In this activity Workshops are arranged for the students from different schools in and around Thane. Valuable guidance is given to prepare them for Science Talent Search Examinations.
- Our students render their services to the centre Sobati –the institute for blind and mentally challenged children.

7.3.8 A) *How does your institution actively support and strengthen the neighborhood communities? How do you identify community needs and determine areas of emphasis for organizational involvement and support?*

- Regular NSS camps at Shantivan, the Old Age Home and Leprosy Rehabilitation Center at Nere, Panvel has led to significant development of the place. NSS volunteers offer their services to develop water storage and conservation by constructing bandhara, bio composting to produce fertilizer, plantation and maintenance of trees etc.
- Students also render their services in post disaster management.
- Students help police in maintaining law and order during Ganesh Festival.
- The staffs of all departments are engaged in 'College- School complex' activity. Students from schools visit our college and interact with the faculty. The students also seek guidance in the research projects they take up for National Children Science Congress or for competitive examinations such as National Talent Search, Homi Bhabha Junior/Senior Scientist Search.
- Biology staff has given services to study and identify biodiversity of animals / plants along Bhatsa River and in the Thane City.

B) How do the faculty and students contribute in these activities?

Teachers are motivated to participate in extension activities by appointing them as NCC Officers, NSS Programme Officers, Chairpersons, and Coordinators for various committees considering their personal interest and talents. The college authorities provide whole-hearted support to all the Faculty Members and Students. Our staff members contribute to relief funds.

7.3.9 Describe how your institution determines student satisfaction, relative to academic benchmarks? Do you update the approach in view of the current and future educational needs and challenges?

The student's satisfaction is studied and evaluated in various ways such as students' feedback forms, actual discussion with the students by subject teachers and mentor, regular interaction of the HOD/ Principal with students and during parents meetings.

The teaching methods are made more and more student- friendly to make the students satisfied and exultant.

7.3.10 How do you build relationships?

i) To attract and retain students

ii) To enhance students performance and

iii) To meet their expectations of learning

Our College has become the most preferred institution in the area, providing variety of courses with dedicated teaching staff, better infrastructure facility, beautiful ambience, environment for excellent learning experience, homely atmosphere, well organized co-curricular and extra-curricular activities, outstanding results and achievements of the students and the faculty in the college. The teacher-student relation is like parent- ward relation. In the subjects like Zoology and Botany teachers accompany students for excursions. Biotech and IT department arranges Industrial visits for students. These activities are useful to have open dialogue with students to understand their difficulties. Mentor system is also useful to resolve students' problems. Studious students as well as slow learners are encouraged to improve in academics as well as in overall personality.

7.3.11 What is your complaint management process? How do you ensure that these

complaints are resolved promptly and effectively? How are complaints aggregated and analyzed for use in the improvement of the organization, and for better stakeholder-relationship and satisfaction?

Students have easy access to staff members, Heads, Vice Principals and Principal for one to one interaction. Suggestion box is kept at prominent place. Feedback is obtained from students. Suggestions or complaints are welcome from parents through formal parent-student-teacher meetings and from the alumni. All these are helpful in planning institutional activities and development. The Students' Council regularly interacts with the College authorities, wherein various decisions are taken. The College authorities provide full support and try to resolve most of the complaints obtained from its stakeholders.

For Re-accreditation:

1. How are the Core Values of NAAC reflected in the various functions of the institution?

The achievements of an organization are the results of the combined efforts of each individual. High achievements always take place in the framework of high expectations. Our leadership and governance with help of IQAC and all stakeholders are converting dreams into reality with commitment to values, equality and transparency, self discipline and continuous efforts. Our college is committed to the task of imparting quality education without losing focus on basic core values laid by NAAC. In executive summary we have highlighted various programs conducted in college following the core values.

The impact of the innovative practices in the college after the first accreditation may be summed up as follows:

- ♣ Due to purposeful efforts, students have become more conscious about their responsibilities towards social justice, equity and access to higher education. The Indian economy is at a juncture where there is a need for human resource with

specialized skills in different fields. The institution has taken the initiative to offer several need based and job oriented courses. Through various activities of NCC and NSS the process of communal harmony and dedication to nation building has been accelerated. Students' association with Sobati- School for blind & disabled and College School- complex programme enhances the culture of social awareness, which is prime factor in national development.

- ♣ Globalization is a way of life. The global market demands a global sharing of talent. The consequence is mass customization of talent and education as the number one economic priority for all countries. Our College has introduced several innovative courses to keep pace with requirements of market forces. Our Management (VPM) has started a Foreign Language centre, VPM-IT centre, Advanced Study Centre and Management Institute. To facilitate the fostering of global competencies, we have some excellent new infrastructural facilities like i) Wi-Fi connected campus ii) Video conferencing facility iii) Well equipped laboratories and high tech Computer and Bio-tech laboratories. iv) Use of smart cards v) Computers with free internet facility.
- ♣ The college has always been the most important means of transferring the wealth of tradition from one generation to the next. Knowledge is of no value unless it is strongly supported by moral values. In regular classes or in small gathering on Teachers' day celebration we teach our students to have contemporary mindset without losing focus on basic core values. In association with 'Vivekananda Kendra' Swamiji's thoughts are conveyed to students.
- ♣ Positive change in the mindset and working methods of the faculty and administrative staff with regard to use of ICTs is the prime achievement. Training the staff in the use of ICTs and facilitating their regular participation in advanced courses and extension and research activities are major steps towards advancement. Our library works on

OPAC and our Administrative office and examination cell are computerized. The college has its own website.

- ♣ Striving for excellence motivates you. Excellence is rare and more over less valued. We know that *men are shaped by education*. Our college is determined to turn the institute into a center of educational excellence. There is an active and effective IQAC, which interacts with teaching, non-teaching staff members and students regularly to sustain and enhance quality standards in teaching, learning and evaluation process. Faculty members are encouraged to pursue research, attend Refresher Courses / Seminars / Conferences to update their knowledge and disseminate the same to students. The College also organizes Seminars / Conferences and Workshops with a view of providing a platform for intellectual interaction. The college authorities continuously work for maintenance and up gradation of infrastructural facilities.
- ♣ Our college is devoted to holistic task of student development and their well-groomed personality. We believe that a college is a place where pebbles are polished and diamonds are created. We believe that desire is the key to motivation, but it is the determination and a commitment to excellence that will enable us to attain the success we seek.

Name of the Department: Department of Botany**1. Faculty Profile**

Sr. No.	Name with educational qualification & designation	Total teaching Experience in yrs		Remark
		UG	PG	
1.	Dr. (Mrs.) M.S. Mulgaonkar. M.Sc., DH.E., M.Phil., Ph.D. Reader and Head.	31	19	Papers published: 14, Seminar i)National: 15, ii)State :1 Papers presented: 05, Workshop: 05, Articles: 02, International seminar: 01 Student registered for Ph.D: 02 Research project completed: 02 Co-coordinator: WDC and Botany club. Member of LMC. Chaired the session in the International Conference held at Dehradun by FRI.
2.	Dr. M. J. Kolet. M.Sc. M. Phil. Ph.D. Reader.	25	16	Papers published: 01, Papers in proceeding: 02, National seminar: 10, Seminar: 02, Workshop: 09, Articles: 06. Research project completed: 02 Commissioned NCC officer with a rank of Captain in the Army. Invited as Raportier for the national conference held at Bhavan's college on 28, 29 Nov. 09.
3.	Dr. Mrs. M. Saha M.Sc. M.Phil. Ph.D. Reader.	23	14	Papers published: 06, Papers in proceeding: 01, National seminar: 09, Paper presented: 03, Workshop: 05, No. of review articles: 02 Completed refresher course: - 01. Major Research project (co-investigator): 01.
4.	Dr. V. M. Jamdhade M.Sc. M.Phil. Ph.D. Lecturer.	07	-	Paper published: 02, Paper in proceeding: 02, National seminar: 04, State seminar: 02, Workshop: 02, Orientation course: 01. Publisher and co-editor of the Journal "Bionano Frontier." ISSN 0974 – 0678, Published from Mumbai since Nov. 07.
5.	Ms. Namrata Dalvi M.Sc. Lecturer	01	-	National seminar: 01, State seminar: 02, Workshop: 02.
6.	Ms. Shraddha Raut M.Sc. Lecturer.	01	-	State seminar: 01, Poster presentation: 01.
7.	Dr. N.S.Tekale (retired)*March 2008. M.Sc. Ph. D. Reader.	-	-	Paper published: 01, National seminar: 02, Paper presented in the National conference: 02 Paper presented in International seminar: 03 Co-opted member on Board of studies in Botany, Shivaji University, Kolhapur. Article in book (Marathi. English.) 'Sen trees' of Mumbai.

2. Departmental result :-

T.Y.B.SC.	YEAR 2006-07		YEAR 2007-08		YEAR 2008-09	
	No. of students	%	No. of students	%	No. of student	%
Distinction	01	6.66	03	37.5	7	43.75
Ist class	07	46.67	03	37.5	8	50.00
IInd class	07	46.67	02	25.0	-	
Pass class	--	-	--	-	-	
Total Appeared	15	-	08	-	16	-
College/University average %	100 / 69.30		100 / 71.58		93.75 / 64.71	

3. Students academic achievements during last five year:-

- ✓ **Ms. Sumit Kaur Bhamra:** (T.Y.B.Sc.) presented a paper on Biodiesel and electricity from waste in seminar on 18 Aug. 2005 and won the second prize and a silver medal.
- ✓ **Ms. Rani Singh:** (Ph.D.student) i) Recieved “Daxina Research Fellowship” from University of Mumbai, Mumbai. ii). Served as Review Committee member for online Journal of Ethnobotany Research and application. iii) Awarded full sponsorship from society of Ethnobiology for presenting oral presentation in the 31st ethno biology conference held at U.S.A.

Paper publication: 03, Paper presented: 05 (National: 03, International: 02).
- ✓ **Ms. Shreya Shripad Bhanap:** (Ph.D. student) Recieved “Daxina Research Fellowship” from University of Mumbai.

Paper presented: 02 (National: 01, International conferences: 01).
- ✓ **Mr. Sameer N Surve:** (Ph.D. student) Paper presented: 05 (National 04, International: 01).

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4. Activities of department club during last 5 year:

Major Activity : Conducted National Conference on “Human health and Nutrition –a Biotechnological approach” on 12th & 13th Dec 2005.

YEAR	ACTIVITIES
2004 –05	<ul style="list-style-type: none">• Exhibition by members.• Members worked for “Village water supply” project with “Jidnyasa trust”, NGO• Lecture on the topic “Biomedical waste and management.”
2005 –06	<ul style="list-style-type: none">• Lecture on the topic “flowers of Sayhadri” and “Digital herbarium” by Mr. Shrikant Ingalharikar.• Workshop on “Preparing Terrarium” by Prof. (Mrs.) Smita Jadhav from Kirti College, Dadar.
2006 - 07	<ul style="list-style-type: none">• Lecture on “Career guidance” by Dr. (Mrs.) Usha Mukundan, Principal, Jhunjhunwala College, Ghatkoper.• Lecture on the topic “Malnutrition in Warli tribe of Thane District.” by Dr. N. S. Tekale.• A field trip for the member to familiarize with the flora of Yeoor hill, Thane.• Lecture on the topic “Scope of research in Botany” by Dr. V.V. Golatkar, HOD, Dept. of Botany, Ruparel College.
2007-08	<ul style="list-style-type: none">• Lecture on research work carried out in BARC by Dr. S.G. Bhagwat Head Plant breeding division of Nuclear Agricultural Biotechnological Division, BARC.• Lecture on the topic “Wonders of Nature” by Mr. Nandan Kalbang, Horticultural consultant.
2008-09	<ul style="list-style-type: none">• Lecture on the topic “Electronic Herbarium” by Dr. T. Srinivasu, Botany Dept. Institute of Science.• ‘Sanklap’ a platform for students to make presentations on topics related to nature and recent advances in Science.• Flower arrangement competition

5. Revision of syllabus.

Syllabus has been updated keeping in mind the current advancement in the scientific word.

F.Y.B.Sc. – Recent advancement in topics like Biotechnology, Genetics, Molecular Biology, and Fungal Biotechnology are incorporated in the syllabus.

S.Y.B.Sc. – Recent developments in Taxonomy, Instrumentation, Bioinformatics, Environmental Biotechnology, Molecular Biology and Biotechnology are incorporated in the syllabus.

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6. Lab Equipments: Department has developed advance facilities such as colorimeter, water bath, laminar flow, magnetic stirrer, water distillation plant, incubator, digital balance, centrifuge, pH meter and HP laser 1020 printer.

Total amount spent during last five years on equipments is Rs. 1,49,500/-

7. Modern teaching methods practiced and use of ICT in teaching & learning :-

Use of audio–visuals, OHP is practiced. Few lectures are taken using power point presentation.

8. Research activity.

Number of project: 04, Paper published: 27, Articles: 11

9. Priority areas for research and details of the ongoing projects, important and noteworthy publication of the faculty, during past two years.

Name	Priority Areas For Research
Dr.(Ms.)M.S. Mulgaonkar	Orchids related research on Taxonomy, Anatomy, Dermal anatomy, SEM study, Ethano-botany, Orchids of medicinal importance and many other biological aspects of Orchids of Thane and adjacent region (Western Ghats.)
Dr. M.J. Kolet	Fungal biotechnology, Rural biotechnology, Mycology.
Dr(Ms).M.Saha	Plant biotechnology, Plant tissue culture studies in fruits, vegetables, medicinal plants, floriculture, plant dye, antimicrobial and antioxidant activities, bioremediation etc.
Dr. V.M. Jamdhade	Plant Physiology, Seed technology.

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10. Fellowship/ award: (if any from last 5 year)

Dr. (Mrs.) M.S. Mulgaonkar –

- 1) Elected fellow of Mendelian academy of sciences (F.M.A.) by the Medelian Society of Indian, in collaboration with IFTDO, USA.
- 2) Recipient of a certificate of appreciation from the Orchid Society of India, Chandigar.

Dr. M. J. Kolet –

- 1) Awarded Govt. of India NCC long service medal for the meritorious service
- 2) Felicitated with special award by DY. DG.NCC for archiving 'Alpha' grading and standing 1st in NCC refresher training course at all India level.

11. Plan of action of the department for the next five years.

- Seed collection and help in cultivation of orchids.
- Establish center for Orchid research, plant tissue culture and mycology (Identification of Fungi).
- Cultivation of rare endangered and threatened species of orchids.
- Start short courses on Instrumentation.
- Information and Guidance center for Botany related topics in Agriculture, IFS, MPSC, Banking,
- Start consultancy to generate revenue, which can be utilized for development of the Department.
- Take more research projects.

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Name of the Department: - Department of Chemistry

B. N. Bandodkar College of Science, Thane

1. Teachers Profile:

Sr. No.	Name With Educational Qualification And Designation	Total Teaching Experience in years		Remark
		UG	PG	
1	Mr. V. S. Burkule M.Sc. M. Phil Head of the department	32	15	Coordinator, Attendance Committee (College), Organizing Secretary, National Conference, M.Sc. Coordinator (Thane District), Resource person at seminar -01/workshop-03, Participation in univ Seminar-03/Workshop -02,National Conference-01; Prepared F.Y.B.Sc. Syllabus Cd for Teachers, Chairman, T.Y.B.Sc. Chemistry Theory Exam
2	Mrs. M. P. Akolkar M.Sc. M.Phil. D.H.E Vice Principal	33	15	Advisory committee member, Participation in National Seminar - 05; Workshop -04, Conference-02; Vice Principal since 2004.
3	Mrs. M. M. Ranade M.Sc. D.H.E	33	15	Coordinator, Literature Association Committee, (College), Participation in National conferences 01;workshop-02 Seminar-02;
4	Mr. D. R. Ambavadekar M.Sc. M.Phil.	24	15	Coordinator, NSS Unit (College), Orientation Course on NSS; Participation in National conferences 01; Seminar-04 workshop-01
5	Dr M.V.Rathnum M.Sc. Ph.D	24	15	Research Guide, M.Sc-02 PhD -07 ongoing Member of American chemical society, Minor project completed-02; Coordinator -Chemistry Club, Participation in National conferences 01,
6	Mr.P.G.Bamane M.Sc.	23	12	Gymkhana Coordinator (College), Participation in National conferences 02;Seminar-04; workshop-02; Award - Manavseva puraskar for Social Work
7	Dr U.R.Pandit M.Sc. Ph.D	22	12	Participation in National conferences 01; workshop-05 seminar-04, Resource person at seminar-01
8	Dr A.N.Bedekar M.Sc. Ph.D	22	12	Research Guide M.Sc. -03,Member of Indian chemical society, Member of Indian Society of analytical Science, Paper published in J-01; Resource person at seminar-01, Participation in National conferences -02
9	Dr (Mrs) A.S.Goswami-Giri M.Sc. Ph.D	6	3	Research Guide M.Phil-02 M.Sc.-01 ongoing. Orientation course-2007; Presentation in International conferences -01; Presentation in National conferences- 04; Participation in National conferences 03; workshop-01; Resource person at seminar-01; Member of Indian Chemical Society; Univ. Minor project completed-01; UGC Major research Project – 01, Recognized member of International Centre for UG Chemistry education,
10	Dr.A.S.Bhardwaj M.Sc. Ph.D	3		

2. Departmental results:

Result/Year	Year 2006-07		Year 2007-08		Year 2008-09	
	No. of students		No. of students		No. of students	
	T.Y.B.Sc	M.Sc.II	T.Y.B.Sc	M.Sc.II	T.Y.B.Sc	M.Sc.II
Distinction	25	-	12	-	16	-
I class	36	01	28	04	13	5
II class	31	05	54	05	54	3
Total appeared	103	07	99	12	98	8
Coll average %	89.33	85.77	94.04	75	85.71	100
Univ. average %	69.30	-	71.58	-	64.71	-

3. Activities of the Department Club (Urja): 1.Eminent personalities from various Industries and other R&D sectors guided our students through Chemistry Club are-

Sr.No.	Name	Designation	Purpose
1	Dr. S. D. Samant	Professor at U.D.C.T.	Inauguration ,Chemistry Club 27 th Aug 04 Recent Trends in Organic Synthesis
2	Dr.Padmanabhan	Scientific Officer, BARC	Chemistry Club 15 th Sept. 04,lecture Validation of Analytical Methods
3	Dr.S.M.Gupte	R&D Officer, Ciba Research Centre	Inauguration ,Chemistry Club 03 September 05 , Lecture :- Indian Pharmaceutical Industry and patents
4	Shri. S.N.Kelkar	Industrialist and Director Omega Laboratory Chemical, Thane	Inauguration, Chemistry Club, 30 Aug 06
5	Mr. M. G. Gadre	Director , Indetech Analytical	Inauguration, Chemistry Club, 18 Aug 07
6	Dr. V. R. Bhate	Director , Indetech Analytical	Inauguration ,Chemistry Club, 18 Aug 07
7	Dr. V. Deshmukh	Director, Drug Regulatory Affairs and Patent Laws	Inauguration ,Chemistry Club, 30Aug 08

Seminar and Poster competitions were arranged through club.

Seminar organized:

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Department has organized following seminars which are not only useful to scientific community, students, teachers but also to society/local community. i) "Laboratory Safety" seminar 30th Jan.2004. ii) "Refreshing Chemistry for Biologist" 26th Sept 2006.iii) "Contaminants in Food and Beverages"- 6th October 2007.

4 Revision of the syllabus:

F.Y.B.Sc. : New Topics : Use of Computer in Chemical calculation, new method of Inorganic Qualitative analysis for practical, Micro Analysis Technique in Organic Chemistry Practical.

S.Y.B.Sc. : New Topics : Use of spreadsheets

5. Learning resources: List of equipment purchased After NAAC (August2003)

The department has added the advance instruments like Electronic balance, Muffle furnace, Ultrasonic Interferometer. Total amount spent under college budget during last five years on equipments is Rs. 530,363/- while under UGC project grant Rs. 399,468/- for purchase of UV Visible Spectrophotometer.

6. Modern teaching methods practiced and use of ICT in teaching – learning

Teaching: Use of computer in practical of T. Y. B. Sc, Subjective C.D. for F. Y. B. Sc teachers, Use of Models for teaching.

Learning: 1.Training for seminar on projector or on power point presentation, 2.Tutorials, 3. Poster presentation, 4. National or International research paper discussion with project students. 5. Internet surfing for research paper.

7 Research activity:

A) Minor Research Project completed: 02

Principal Investigator : Dr M.V.Rathnum

Title of the Project: "Densities and excess volumes of binary mixture of esters with hydrocarbons in the temperature range of 288.15K to313.15K."

Funding Agency: University of Mumbai **Duration:** 2003-2004 **Amount:** Rs.20,000/-

Principal Investigator : Dr.(Mrs.) A. S. Goswami-Giri

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Title of the Project: "Oxidation of 3, 4-dihydroxyphenylalanine and inhibition of dopa oxidase by substrate analogues and copper chelator of onion leaves."

Funding Agency: University of Mumbai **Duration:** 2006-2007. **Amount:** Rs. 20,000/-

C) Number of students guided by faculty to develop interests in the research through Science Square:

I. Mr. V.S. Burkule : 03 . II. Dr.(Mrs.) A. S. Goswami-Giri : 26

8. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years

Name Of The Faculty	Priority Of Area	Publication In International Journal	Papers Presented In Conferences	
			International	National
Dr.M.V.Ratham	Thermodynamics	6	-	-
Dr.A.N.Bedekar	Bio-organic & Analytical -Chemistry	1	-	3
Dr.(Mrs.)A.S.Goswami-Giri	Organic & Biochemistry, Natural Products.	1	1	4

Number of Ongoing projects and its total outlay

Major Research Project : 01

Principal Investigator : Dr.(Mrs.) A. S. Goswami-Giri

Title of the Project: "Separation of endogenous inhibitor, Immobilization and properties of PPO."

Funding Agency: UGC **Amount:** Rs.11, 38, 800/- **Duration:** Feb.2009 to Jan.2012.

9. Plan of action of the department for the next five years

- 1] To improve use of ICT during lectures.
- 2] To arrange lectures by eminent personalities
- 3] To encourage students for competitive examinations.
- 4] To arrange National level Conference/Seminar/workshop.

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Name of the Department : Department of Foundation course

1. Faculty profile

Sr. No.	Name with educational qualification & designation	Total teaching experience UG	Remarks
1.	Mr.Sudhir .K. Bhosale M.A.(Political Sc.) NET Lecturer	6	Completed orientation course (2008). Member of the syllabus committee for revision of the syllabus for the class F.Y.B.Sc/B.A/ B.COM./ S.YB.Sc/B.A/ B.COM./. Attended 2 workshops on syllabus and 1 seminar. Coordinator of Sahitya Sahvas

2. Activities of the department during last five years:

Students have done mini research projects apart from projects in the syllabus. During last five years the teacher has guided students in completing the mini research projects on the topics-

Floods in Mumbai

Local trains in Mumbai

Garbage in Mumbai

Footpaths in Mumbai


3. Revision of the syllabus:

The syllabus for F.Y.B.Sc was revised in 2007 with introduction of project work & viva. S.Y. B.Sc was revised in 2008 with introduction of project work along with assignment.

4. Learning resources: students use computer for compilation of project reports.

5 Plan of action of the department for the next five years.

 To encourage students to take new projects.

 To prepare students for interview at the Corporate level and for various competitive examinations.

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Name of the Department: Department of Mathematics

1 Faculty profile:

Sr.No.	Name With Educational Qualification & Designation	Total Teaching Experience in years.	Remark
1	Mrs.M.T.Wankhede (M.Sc.SET) H.O.D	12	Refresher course :: 1 Seminars : 4 Workshop : 4 Awards received. : 2
2	Mrs. M.M.Patgaonkar (M.Sc.) Lecturer	6	Seminar : 4 Workshop : 4
3	Ms. Seema Agrawal (M.Sc.) Lecturer	1	-----
4	Mr.Subhash Gaded (M.Sc) Lecturer	1	-----
5	Mr.R.S.Poddar	34	Retired on 30/09/2006
6	Mrs. S.N.Joglekar	30	Retired on 30/01/2007

2 Departmental results (T.Y.B.Sc.)

	YEAR 2006 -2007		YEAR 2007 -08		YEAR 2008 -09	
	No. Of Students	%	No. Of Students	%	No. Of Students	%
Distinction	01	4	03	17	03	12.5
I Class	06	24	08	47	04	16.67
II Class	09	36	05	29	13	54.16
Pass Class	03	12	00	00	01	04.16
Total appeared	25	-	17	-	24	-
College/University Avg. %	76 / 69.30		94 / 71.58		85.71 / 64.71	

3 Revision of the syllabus:

- “Mu-Pad” Mathematics software introduced for T.Y.B.Sc. Practical from 2005

4 Learning resources: Lab equipments

- 3 printers, 1 OHP, 1 LCD screen, Computer lab is shared with other departments.

5 Students’ Academic Achievements during last five years

B. N. Bandodkar College of Science, Thane

- Ms.Umalaxmi Birajdar stood second in T.Y.B.Sc. Mathematics University Merit List 2008.
- Ms.Umalaxmi Birajdar qualified IIT-JAM 2008.
- Ms.Kavita Parab, Mr. Vinayak Kharpude qualified IIT-JAM 2006.
- Mr. Abhishek Joshi passed IELTS (International English Language Testing System) 2008
- Mr.Ajinkya Waknis stood first in the merit list of MCA entrance test 2009.
- Miss Nilofer Shaikh stood second at intercollegiate Maths quiz held at Bhavans college, Andheri on 15th December 2005.

6. Activities of the Department club during last five years:

- Dr.G.D. Padukone (St.Xavier College) was invited to give a talk on “Some interesting problems in Mathematics” on September 04, 2004.
- Intercollegiate Seminar on “Financial Mathematics” was organized August 26, 2006
- Mr.R.S.Waghode, Retd. Deputy Director, Education Department was invited to give a talk on “Career opportunities after B.Sc.” on August 11, 2007
- Mr.Mandar Khasnis (C.H.M. College) was invited to give a talk on “Origami & its roll in Mathematics” on 01 September 2008
- Mathematics Quiz, Seminar, Exhibition are organized every year.

7. Modern teaching methods practiced and use of ICT in teaching:

- OHP is used extensively to teach Mathematics in the classes.

8. Plan of action of the department:

- To arrange Intercollegiate Quiz Competition through Mathematics club.
- To encourage students to work on mini-research project.
- To encourage students to participate in National/International seminars.

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Name of the Department: Department of Physics

1. FACULTY PROFILE					
Sr. No.	Name with educational qualification & designation	Total teaching Experience in yrs		Remark	
		UG	PG		
1	Prof. V.D. Golatkar. M.Sc (H.O.D)	34	-	a) Seminar attended 2 b) Conference attended 1 c) Workshop attended 2 d) Chairperson Exam. Committee	
2	Prof. A.D. Shet. M.Sc M.Phil (Lecturer)	33	-	a) Seminar attended 2 b) Conference attended 1 c) Refresher course attended 1 d) Co-coordinator Mentor system	
3	Dr. M.N. Nyayate. M.Sc M.Phil Ph.D. (Reader)	33	8	a) Guide : M. Sc by Research & Ph.D.	
4	Prof. S. Venkatraman. M.Sc (Lecturer)	28	3	a) Conference attended 1 b) Refresher course attended 1	
5	Prof. D.R. Chaudhari. M.Sc D.H.E. (Lecturer)	28	-	a) Seminar attended 6 b) Conference attended 3 c) Work shop attended 3	
6	Prof. S.G. Bapat. M.Sc M.Phil (Lecturer)	25	-	a) Seminar attended 1 b) Conference attended 2 c) Workshop attended 1 d) Refresher course attended 1 e) Guest Lecturer Given 1	
7	Prof. N.D. Mandge. M.Sc D.H.E. (Lecturer)	29	-	a) Seminar attended 1 b) Conference attended 5 c) Workshop attended 2 d) Refresher course attended 1	
8	Prof. Mrs. S.S. Meshram. M.Sc B.Ed (Lecturer)	11	-	a) Seminar attended 8 b) Conference attended 1 c) Workshop attended 5 d) Orientation course attended 1 e) Refresher course attended 1	
9	Prof. Mrs. U.B. Gokhe. M.Sc B.Ed (Lecturer)	8	-	a) Seminar attended 1 b) Conference attended 1 c) Workshop attended 3 d) Orientation course 1 e) Refresher course 1	
10	Prof. B.K. Mandlekar. M.Sc M.M.S. (Lecturer)	9	-	a) Workshop attended 1 b) Orientation course attended 1	

2. T. Y. B.Sc. Results for last three years

B. N. Bandodkar College of Science, Thane

	YEAR 2006-07		YEAR 2007-08		YEAR 2008-09	
	No. of students	%	No. of students	%	No. of students	%
Distinction	01	01.59	03	09.38	01	02.38
I class	10	15.87	05	15.63	08	19.05
II class	25	39.68	15	46.88	17	40.48
Pass class	03	04.76	02	06.25	01	02.38
Total appeared	63	-	32	-	42	-
College /University average	61.9 / 69.3		78.12 / 71.58		64.28 / 64.71	

3. **Revision of the Syllabus:** F.Y.B. Sc 2008-2009. S.Y.B. Sc 2009-2010.

4. **Lab equipments:** Purchased during last five years. : a) Spectrometer-30,
b) Microscopes-18 c) Telescope-26, d) Oscillators-03, e) Power Supply-32,f) Cathode Ray Oscilloscope-04
Total Amount Spent Rs. 1, 20,000

5. **Papers/books/articles published during last 5 years. Give details.**

Mr. N. D. Mandage has published 3 articles in leading Marathi daily newspaper "Loksatta" on "International year of Astronomy-2009."

6. **Activities of the Department during last 5 years:**

- One-day seminar on "Indian Mathematics" held on 5th Dec.2004.

- A lecture on “Tsunami” by Prof. Mohan Apte, on 8th Feb.2005. At V PM’s Polytechnic Hall, arranged by Dept. of Physics, B.N. Bandodkar college of Science, Thane.
- Inaugural function of Physics club held on 24th August 2005, Sub. “Scientific Aspects of Pyramid Power”.
- Three Day conference on “Einstein’s Theories & Present Scenario” held on 17th, 18th & 19th Nov. 2005, at Physics Department, B.N. Bandodkar college of Science, Thane.
- A lecture by Prof. Mohan Apte on “Appreciation of Physics In Daily Life” on 12th Dec.2006
- A lecture by Prof. B.D. Chakradev on “Appreciation of Physics In Daily Life” on 12th Jan.2007
- Inaugural function of Physics Club “Avishkar” & lecture on “Crime detection and Physics / Chemistry”. Held on 22nd Aug. 2007.
- Workshop on New Syllabus in Physics for Junior college teachers Thane Dist. Organized by Director of Education, Mumbai Region.

7. Plan of action for next five years

- To organize workshop/seminar/exhibitions.
- To arrange lectures by eminent scientists.
- To strive to improve results of students.

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Name of the Department: Department of Statistics

1. Faculty profile :-

Sr. No.	Name With Educational Qualification & Designation	Total Teaching Experience in yearrs		Remark
		UG	PG	
1	Prof A.P. Patil M. Sc., M. Phil. Head of Department	29	01	Co-ordinator of Staff Academy Refresher Course : 1 Seminars attended : 2 Invited as chif guest : 1 Visiting lecturer M.Pharma
2	Prof. (Mrs.)M.J.Gholba M.Sc., M.Phil. Lecturer	29	---	Co-ordinator of IQAC Refresher Course : 2 Seminars attended : 2 Papers published: 6
3	Prof.(Mrs.) S.M.Phatak M.Sc., M.Phil. Lecturer	30	---	Co-ordinator of Dramatics committee Chairperson T.Y. B.Sc. Statistics Theory Exam Univ. of Mumbai. Refresher Course : 1
4	Dr.(Mrs.) K.D.Phal M.Sc., M.Phil., Ph.D. Lecturer	27	07	Completed Ph.D. in year 2007 Refresher Course : 1 Work shop : 1 Papers published: 2

2.Departmental results

YEAR	2006-07		2007-08		2008 -09	
	No. of students	%	No. of students	%	No. of students	%
Distinction	09	19.15	13	44.83	05	19.23
I class	09	19.15	07	24.14	05	19.23
II class	20	42.55	08	27.59	09	34.62
Pass class	02	4.25	00	00	02	7.69
Total appeared	47		29		26	
College / University average	85.10 / 69.30		96.56 / 71.58		80.76 / 64.71	
University Rank Holders			Milind Kokate stood 1 st .			

3. Revision of the syllabus: F. Y. B. Sc. : 2008 – 09, S. Y. B. Sc. : 2009 – 10

4 Learning resources: 20 scientific calculators of worth Rs.12, 120(Casio fx 991MS) were purchased.

5. Students' academic achievements during last five years.

- (i) T.Y.B.Sc. Students Bichith Thayya and Rammagan Verma stood first in the Quiz Contest held by organization 'SANKHIKI' for Mumbai University undergraduate students on 11th and 12th Nov. 2006.
- (ii) Mr Milind Kokate stood first in Statistics subject in University subjectwise merit list and third in the overall merit list in T.Y.B.Sc examination held in March 2008.

6 Activities of the Department club 'Sankhya' during last 5 years:

- Three days workshop was conducted by Statistics Department on 27th - 29th Sept. 2005 for Non – Statisticians.
- Prof. C.S. Nimkar delivered lecture on, "Scope of Statistics" on 10th Sept. 2005.
- On 24th Jan 2006 Dr. R. G. Shenoy, Reader, Department of Statistics, University of Mumbai, gave talk on "Future scope of Statistics."
- T.Y. B. Sc. Students were taken for a visit to International Institute of Population Studies (IIPS), deonar, Mumbai on 2nd Aug. 2006.
- Dr. Sasikumar Menon, Asst. Director, TDM Lab. Mumbai, delivered a talk on "Statistical Software Packages and its applications in Industry" on 22nd Aug. 06.
- Intercollegiate Seminar on "Financial Mathematics" was organized on 26th Aug. 06.
- On 28th July 2007, Ms. Almas Sayed, from SIRO CLINICAL RESEARCH, gave a talk on "Statistics and Clinical Research".
- Mr. D. Reddy delivered a talk on "Drug Industry, Statistics and Softwares" on 19th Sept. 2008.

7. Modern teaching methods practiced and use of ICT in teaching – learning:

- (i) Software EXCEL is used to perform practicles of F.Y. B.Sc.
- (ii) Software TORA is used to perform practicles of T.Y. B.Sc.

8. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years:

Dr.(Ms) K. D. Phal:- Area of research: Estimation in the presence of Outliers.

9. Plan of action of the department for the next five years.

We plan to make Statistics subject popular among the students as well as in the Society by conducting workshops, seminars and holding competitions.

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B. N. Bandodkar College of Science, Thane

1. Faculty Profile:

1.1 Faculty

Sr. No.	Name With Educational Qualification And Designation	Total Teaching Experience in years		Remark
		UG	PG	
1	Dr.(Mrs.) M.K.Pejaver Principal and Head – Dept of Zoology M.Sc., D.H.E., Ph.D.	30	15	Research Papers: 19 Guidance to students: 10 Project: 02 Consultancy (Honorary) 03 Award –THANE GAURAV Recognition 01 15
2	Dr.(Mrs.) N.N.Patil M. Sc., D.H.E., Ph.D. Reader	30	05	Research Papers: 02 Guidance to students: 02 Project: 02 Consultancy /Project 01 Chairman for University T.Y.B.Sc. Practical Exam Coordinator: College School Complex & Calendar Committee Recognition 01
3	Dr.R.P.Athalye M. Sc., Ph.D.Reader	29	23	Research Papers: 09 Guidance to students: 05 Project: 02 Consultancy / Project: 01 Coordinator: Yoga Committee
4	Dr.(Mrs.) S.V.Mahajan M.Sc., Ph.D.Reader	26	03	Guidance to students: 01
5	Mr.S.D.Rathod M.Sc., Lecturer	19	-	Research Papers: 01 Project: 01 Refresher Course: 01
6	Dr.(Mrs.) V.D.Manjramkar M.Sc., Ph.D.Reader	14	-	Project: 01 Refresher Course: 02
7	Dr.(Mrs.) P.N.Kurve M.Sc., Ph.D. Reader	16	-	Research Papers: 05 Project: 01 consultancy/project 01 Refresher Course : 01 Coordinator: Zoology Club Award 01
8	Dr.K.M.Pariya M.Sc., Ph.D. Lecturer	09	-	Orientation Programme: 01 Refresher Course (NSS): 01

2. Member of Seminar / Workshop / Conferences attended by faculty members

B. N. Bandodkar College of Science, Thane

Name Of The Faculty	International	National	State	University
Dr.(Mrs.) M.K.Pejaver	01	12	04	21
Dr.(Mrs.) N.N.Patil	-	05	02	09
Dr.R.P.Athalye	01	07	04	09
Dr.(Mrs.) S.V.Mahajan	-	-	-	07
Mr.S.D.Rathod	-	09	03	05
Dr.(Mrs.) V.D.Manjramkar	-	02	-	07
Dr.(Mrs.) P.N.Kurve	-	03	-	14
Dr.K.M.Pariya	-	07	02	12

1.3 Articles and Research Papers published :

Name Of The Faculty	Articles	Research Papers
Dr.(Mrs.) M.K.Pejaver	04	19
Dr.(Mrs.) N.N.Patil	01	01
Dr.R.P.Athalye	04	09
Mr.S.D.Rathod	-	01
Dr.(Mrs.) P.N.Kurve	13	05

2 Departmental Results: T.Y.B.Sc.

	Year 2006 -2007		Year 2007 -08		Year 2008 -09	
	No. Of Students	%	No. Of Students	%	NO. OF STUDENTS	%
Distinction	01	3.33	08	21.62	06	25.00
I Class	17	56.67	10	27.02	05	20.83
II Class	12	40.00	12	32.43	10	41.67
Pass Class	00	00	00	00	03	12.50
Total appeared	30	-	37	-	24	-
College /University Avg.	100 / 69.30		81.08 / 71.58		87.50 / 64.71	

3 Student achievements and awards:

B. N. Bandodkar College of Science, Thane

2004-2005

- ✓ **Miss Pranali Gaonkar from T.Y. B.Sc. zoology 2004-05 stood second** in the merit of zoology **in University of Mumbai** She was felicitated by Pro-Vice Chancellor Dr.Arun Sawant of University of Mumbai in July 2005 And by V.P.M. on 1st Aug 05. 2006--2007
- ✓ T.Y.B.Sc. zoology students, Kamakshi Nayak, Purva Acharekar and Manasvi participated in Intercollegiate events **“Survival of the Fittest”** held on 21st and 22nd Nov. at S.I.E.S. College, Sion and secured 3rd place.
- ✓ Mr. Amol Patwardhan and Mr. Hemant Karkhanis, Ph.D. students, were awarded with consolation prizes in National science Photography contest **“Light and shade of science”** organized by Rastriya Vigyan Evam Prodyogiki Sanchar Parishad, Department of Science and Technology, Government of India, New Delhi in 2006.
- ✓ Mr. Amol Patwardhan’s photo was also selected for btw magazine’s 11th Dec.2006 volume.

2007-2008

- | | | | |
|---|---|--|-----------|
| ✓ | University | 1st rank in Zoology – Rane Abhishek Arun | 687 / 800 |
| ✓ | University | 3rd rank in zoology –Salvi Sonal Bhalchandra | 673 /800 |
| ✓ | Miss.Rufina Rodriguez and Miss. Harshada Adkar- Secured 1 st prize & Mr. Sujit More secured 2 nd prize at SIES College on 26,27 November 2007 | | |

2008-2009

- ✓ Gayatri Sagde Post Graduate Merit Scholarship for year 2007 -2008.

4. Benefit of Faculty Improvement Programme (FIP).

- ✓ Mr. S.D.Rathod on FIP from April 2009
- Duty leave for all members to attend Workshops/seminars for Faculty Development

5 Department Club Activities of last five years:

B. N. Bandodkar College of Science, Thane

Zoology Club (Green Force Nature Club)

2004 -2005

1. Organized Jaiv Shrushti exhibition and Nature Trail.

2005 – 2006

1. Lecture and slide show on Butterflies and Moths by Dr. Amol Patwardhan
2. Lecture on Rain water Harvesting by Mr. Vidyadhar Walawalkar, Secretary – Enviro Vigil, (NGO)
3. Poster Competition on Save Energy Save Money.
4. Nature Trail to Yeoor, Sanjay Gandhi National Park

2006 – 2007

1. Exhibition of posters of Epidemiology.
2. Slide show By Yuvaraj Gurjar

2007 – 2008

1. Organized lecture on Butterfly Gardening by Mrs. Alka Bhagwat, H.O.P.E. – Member
2. Lecture by Dr. (Mrs.) M.K.Pejaver, Principal on Nature Trail
3. Participation of students as Volunteer in Panda Festival, State Level Event organized by WorldWide Fund For Nature, India

2008 – 2009

1. Lecture on Awareness on Environment by Dr. Deepa Rathi, HOD, Nirmala Niketan.
2. Poster Exhibition on Sanctuaries and National parks of India by students
3. Nature Trail to Yeoor.
4. Participation of students as Volunteer in Panda Festival, State Level Event organized by WorldWide Fund For Nature, India

6 Revision of Syllabus:

CLASS	YEAR	NEW TOPICS ADDED
F.Y.B.Sc.	2008	In vitro fertilization (Theory), Impact of human activity on Bio geo cycles and population dynamics in detail.
S.Y.B.Sc.	2009	Primary germ layers in embryology, silk moth life history, Dracanculus parasite and vermiculture.
T.Y.B.Sc.	2004	Immunology, ethology and epidemiology Applied component in fishery biology – 2007: Marine ecosystems, fishery institutes, sea weeds and fishery of ribbon fish, elasmobranchs.

6 A) Lab Equipments: (post NAAC)

The department has added the advance instruments like Binocular Microscope, Medical Microscope with inclined tube, Electrophoresis Unit. Total amount spent under college budget during last five years on equipments is Rs. 153,235/- while under UGC 123,557/- for purchase of Spectrophotometer, pH meter and Research Microscope.

B) Learning Resources

1. Power point presentation.
2. Excursions are conducted as per syllabus for F.Y., S.Y., and T.Y.B.Sc students: Institutes like NIO, FSI, CRI and National Parks and Sanctuaries are visited.

7 Modern Teaching Method

- ✓ Online Web Practical (BLAST SOFTWARE from (www.ncbi.nlm.nih.com.))
- ✓ Power point presentation
- ✓ Subjective CDs by few staff members.

9 Research activities:

A) No. of Projects:	06	B) Paper published:	31
C) Consultancy:	01	D) Articles:	22

B. N. Bandodkar College of Science, Thane

E) **Conducted National** Seminar on “Wonderful world of Insects” on 3rd Dec. 2008. Prior to that two Preparatory workshops were conducted.

10 Priority areas for Research

	NAME OF	SUBJECTS
1	Dr.(Mrs.) M.K.Pejaver	Biodiversity, Limnology, Ecology, Environmental science
2	Dr.(Mrs.) N.N.Patil	Ecology, Fishery Biology
3	Dr.R.P.Athalye	Physiology, Entomology, Ecology, Toxicology and Taxonomic studies
4	Dr.(Mrs.) S.V.Mahajan	Toxicology and environmental pollution
5	Mr.S.D.Rathod	Pollution study, Fishery Biology
6	Dr.(Mrs.) V.D.Manjramkar	Endocrinology, Epidemiology and Reproductive Biology
7	Dr.(Mrs.) P.N.Kurve	Toxicology, Fishery Biology, Entomology and Biodiversity
8	Dr.K.M.Pariya	Physiology, Bioinformatics

Note worthy Publication

A new species of *Xanthopenthes fleutiaux*, 1928 from Maharashtra, India, Coleoptera, Elateridae: Dr. Amol Patwardhan, Ranier Schimmel and Dr.R.P.Athalye, International Journal Genus, Vol.19 (4)2009 pg. no. 675 - 678

11 Plan of Action of Department for next five years:

1. Well established research lab.
2. Printed Journals for students.
3. Increase infrastructural facilities.
4. Involve Alumni for departmental activities
5. Health and sex counseling for students.
6. M.Sc. In Bioinformatics from YCMOU.

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Name of the Department: - Department of Information Technology / Computer Science**1. Teachers Profile:**

SR. NO.	NAME WITH EDUCATIONAL QUALIFICATION & DESIGNATION	TOTAL TEACHING EXPERIENCE IN YRS		REMARK	
		UG	PG		
1	Mr. Abhijeet A.Kale M.Sc (Physics) M.Tech (I.T) Incharge – I.T./CS Dept.	11	05	International Conferences Attended	01
				National Conference attended	02
				Working as Chairman for T.Y.B.Sc.(I.T.) Sem. V and VI Exam from April 2007	
				Working as LIC Committee member of S.N.D.T. University	
2	Mrs. K.P. Sujata M. Sc. (Electronics)	03	-	National Conference attended	01
3	Mrs Prajakta S. Kamble M. Sc. (I.T)	03	-	University Level Workshop attended	01
4	Mrs Harshada Sonkamble B.E (I.T)	01	-	-	
5	Mrs. Pradnya D. Pawar M. Sc. (Comp. Sci.)	02	-	-	

2**Departmental results**

ACADEMIC YEAR	YEAR 2006-07		YEAR 2007-08		YEAR 2008-09	
	No. of students passed with (%)					
	B.Sc.(I.T.)	M.Sc.(I.T.)	B.Sc.(I.T.)	M.Sc.(I.T.)	B.Sc.(I.T.)	M.Sc.(I.T.)
Distinction	01 (1.69)	01 (07.69)	00	02 (11.76)	00	00
I class	32 (54.25)	06 (46.15)	31 (48.43)	08 (47.05)	28 (41.79)	08 (61.53)
II class	13 (22.03)	05 (38.46)	08 (12.50)	06 (35.29)	15 (22.38)	02 (15.38)
Pass class	03 (05.08)	01 (07.69)	11 (17.10)	00	04 (05.97)	00
Total appeared(%of passing)	59 (83.05)	13 (100)	64 (84.37)	17 (100)	67 (70.14)	13 (76.92)
University Average	65.13	-	65.22	-	60.59	-

3

Students' academic achievements during last five years

- Miss Shubhada A. Nandarshi of T.Y. B.Sc –I.T is a Sun Certified Programmer for Java 2 Platform 1.4 on 29th June 2005.
- Miss Shubhada A. Nandarshi of M.Sc –I.T part II presented paper on “Fact for improving iSCCP” in a National Conference on Advancement in Information & Communication Technology. Organized on 15 -16 March 2008
- First Batch students of T.Y.B.Sc I.T 2004 have got placement in Organization like Wipro Technologies Ltd , Lawrence Infotech , Patni Computers
- Two of our M. Sc. (IT) students developed certain properties of firewalls which will ban users from visiting certain sites.
- I.T. students helped prospective students to fill online forms, and to update data. Some also helped in creating e book. These students were paid for their services. Thus it was a successful ‘Earn and Learn’ scheme.
- Our Students
 - Anthony D’Souza - Prize Winner in Modern College in C debugging and participant in Sun Solarise 10.0 on 9^h , 10th Jan 2009.
 - Ashwini Bansoda - Prize Winner in Modern College in C ++ debugging in Dec 2008.
 - Omkar Kulkarni – Designed Cover page for the magazine “ Sanyuja” in 2008.
 - Rohan Pranab has fulfilled all requirements as a Sun certified programmer for java on 28th June 2009.
 - Rajas Mhatre is awarded with a merit Recognition Certificate for National IT Aptitude Test held on 18th Jan 2009.
 - Gretta D’Souza is awarded with a merit Recognition Certificate for National IT Aptitude Test held on 18th Jan 2009.

4 Activities of the Department club during last 5 years

Academic Year 2008-2009

- A Lecture on ‘Latest Trends in Information Security and Hacking Techniques’ was arranged by the Cyber Crime cell on September 18, 2008 at 3.00 PM.
- A seminar by webdunia regarding marathi.webdunia.com portal was arranged on August 25, 2008 at 3.00 PM
- A Seminar on SAP was organized by I.T club in Collaboration with Computer Link on August 23, 2008.

B. N. Bandodkar College of Science, Thane

- A seminar on “Careers in IT” was conducted by Trimax Future Perfect on July 19, 2008. The discussion was based on Various Careers in IT.
- 28 students of T.Y.B.Sc. (I.T) alongwith Mr. A.A.Kale went to Bangalore to visit I.T. Industries from February 10, 2009 to February 15, 2009.

Academic Year 2007-2008

- A Lecture on Cyber Crime was arranged on September 12, 2007. Assistant Commissioner of Police, Cyber Crime Cell, Thane Mr. D. E. Barkade was the Guest speaker.
- A Lecture on “Future Trends in I.T” from Seed Infotech Ltd was arranged on January 29, 2008.
- A lecture on “Upcoming Technologies in I.T” was arranged on February 07, 2008
- 32 students of T.Y.B.Sc. (I.T) alongwith Mr. A.A.Kale went to Bangalore to visit I.T. Industries from February 06, 2008 to February 10, 2008.
- Department is trying to impart importance of Open Source by conducting regular seminars or workshops for students / teachers / faculties of other colleges.
- A seminar on Dot Net was arranged on December 15, 2007 at 3.00 PM

Academic Year 2006-2007

- “Linux Thane 2006”, National Conference was held on November 24 -25, 2006.
- Mr. Abhijeet Kale delivered a lecture along with Network movie for F.Y.B.Sc.(I.T.) and S.Y.B.Sc.(I.T.) students in June 2006
- A Lecture by Mr. Santosh Sony on “Advanced Computer Network” was arranged for M.Sc Students on February 20, 2007

Academic Year 2005-2006

- All the teachers and 11 students of I.T Dept Visited CDAC Mumbai on February 18, 2006 on occasion of Open House Event.
- B.Sc.(I.T) students developed software as a part of an academic project for companies like Cadbury, Excel Industries etc.
- I.T. Department on October 01, 2005 organized a workshop on Linux, for teachers and non-teaching staff of our college.

Academic Year 2004-2005

- A Lecture by Mrs S.P.Chavan (V.P Technologies - Zee network) was arranged on 17 July 2004 The topic was “Current trends in Technologies”

5 Learning resources:

- Lab Equipments, LCD Projectors, Laptops are used to make teaching innovative and interesting Using these students are also attentive in class.
- Kits for Electronic Practicals help students to understand theory more clearly.

6 Modern teaching methods practiced and use of ICT in teaching – learning

Students of F.Y.B.Sc I.T perform Microprocessor Practicals both on Kits and Simulator Softwares.

7 Plan of action of the department for the next five years -

- To Conduct Workshops, Seminars apart from regular academic curriculum prescribed by the University of Mumbai for the overall development of Students and to prepare them to meet the future challenges
- Motivate Students to participate in all the activities so that they can develop their personality.
- To increase Success Rate of Students and try for University ranks.
- To upgrade the knowledge of teaching staff.

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B. N. Bandodkar College of Science, Thane

Name of the Department: Department of Biotechnology / Microbiology

1. Faculty Profile

Sr. No.	Name with educational qualification & designation	Total UG teaching Experience in yrs	Remark
1	Ms. Ashwini J Apte, M.Sc., B.Lib. Coordinator	2	Attended work shop:3 ; Seminars :2
2	Ms. Yogita S Dhuri, MSc. Lecturer	5	Attended work shop:3 : Seminars :3
3	Ms. Sneha P Narvekar, MSc Lecturer	1	Attended work shop:1 ; Seminars :3
4	Ms. Rani S Singh, MSc Lecturer	5	Attended work shop:3 ; Seminars :4 International conference : 4 <i>Submitted synopsis titled : "Applied ethnobotanical studies of some plants-A case study of Bhil-Bhilalas in Jhabua district of Madhya Pradesh of central India"</i>

2 Modern teaching methods practiced and use of ICT in teaching – learning.

New & modern techniques like CDs, power point presentations & internet are used to upgrade the knowledge & skills of the students.

3. Students' academic achievements during last five years.

Academic Competitions:

- Ms. Shruti Shotri stood 2nd [Runners up] in theme based T-shirt painting competition – ART-ATTACK, at Ruia College, Matunga.
- Mr. Ganesh Kadam Stood 3rd in Paper presentation - Scileague at R. J. College, Ghatkopar
- Mr. Ganesh Kadam and Kaynath C. Were stood 3rd in Quiz competition at R.J. College, Ghatkopar.
- Mr. Swapnil Lambe of stood 1st in 'Rang de Culture' competition at Birla College, Kalyan.
- Ms. Prajakta Bagade & Ms Ashwini Lahire stood 2nd in a Project Competition in a Science Exhibition, at CHM College, Ulhasnagar.

Research Projects:

The staff encourages the students to undertake Mini research projects to increase the research enthusiasm. The projects completed are

Sr.No.	Title Of The Project	No Of The Students Participated	Name Of The Teacher Guide
1	Study of insects at VPM campus	5	Ms. Yogita Dhuri
2	Comparative study of Rhizophora species	3	Ms. Rani Singh
3	Comparative analysis of sugarcane juice in Thane	1	Ms. Sneha Narvekar

Training Experience:

During this vacation (Apr –May 09) we encouraged 2 students for summer training to get hands-on training in industry.

3 Activities of the Department club during last 5 years:

1. Department has started 'Journal Club' in which students develop a habit of reading research papers of the eminent scientists', by which they gain knowledge of recent trends & development in the concerned subject.
2. An interactive sessions of Teachers and Students of F.Y. & S.Y. Biotechnology are conducted.
3. A meeting of F.Y. Microbiology students along with their parents was arranged on 15.12.2008 Principal guided the parents regarding the course, scope, career in the subject & the facilities provided to the students for the new course.
4. Industrial visits and summer trainings are arranged for the students to become well versed with the company ethics and etiquettes, to broaden their career horizon, and to learn new trends & techniques in the field of research.

4 Learning resources:

1. Separate rooms for laminar airflow & tissue culture are provided in the department. And a new Microbiology Lab is under construction.
2. Along with the lab facility, 5 computers with internet connectivity & a departmental library facility is provided to the students.

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Name of the Department: Department of Library Science (Affiliated to YCMOU)

1).Visiting faculty Profile :

Sr. No.	Name with educational qualification& designation	Total teaching Experience	Remark
1	Mr N.S.Barse (Co-ordinator)B.A., M.L.I.Sc, NET & SET	10	Attended International conference:01 National seminars : 5 State level Seminars : 2
2	Dr D.N. Phadke	10	Published 2 books
3	Dr P.G.Karmarkar	10	
4	Mrs Priyamvada Joshi B.Sc, M.L.I.Sc	9	
5	Ms Kadambari K Kardekar B.Sc, M.L.I.Sc, NET	3	International conference : 1 National seminars : 1 State level Seminars : 3 Regional Workshops : 2
6	Mr Sandeep Bhavsar B.com, M.L.I.Sc, SET	3	International conferences : 2 National seminar : 1 Regional Workshop : 1
7	Mr Sanjay Sapkal B.Com, M.L.I.Sc, M.Phil	3	National seminars : 2 State level Seminars : 1 Regional Workshops : 2
8	Mr Rajesh Lule B.com, M.L.I.Sc	1	
9	Mr Rajendra Bhurke B.com, M.L.I.Sc	1	
10	Mr Shashikant Kothekar B.A, Diploma In Journalism	4	
11	Mr Ravindra Manjrekar B.A, Diploma In Journalism	4	
12	Mr Milind Ballal B.A, Diploma In Journalism	4	
13	Mr Prashant Dixit B.A, Diploma In Journalism	8	

2) Papers/books/articles published during last 5 years. Give details

1.Ms Kadambari K Kardekar Presented 1 paper in state level workshop on Best Practices in library services.

2. Mr D.N.Phadke has published 2 books

Departmental Results :

Year: 2006-07

	I Class	II class	Pass class	Total appeared	Passing %
B.L.I.Sc	11	10	-	39	53.84
M.L.I.Sc	8	5	-	22	59.09

Year: 2007-08

	I	II	Pass class	Total appeared	Passing %
B.L.I.Sc	18	5	-	40	57.50
M.L.I.Sc	4	2	-	20	30.00
Journalism	7	13	1	37	56.75

3) Learning resources of the departments –

Students have computer practicals which are held in I.T lab.

4) Participation / contribution of teachers to the academic activities including teaching, consultancy and research.

Ms Kadambari K. Kardekar currently doing project on “Collection Development policy in colleges offering PG course in science stream”.

5) Plan of action of the department for the next five years.

- ✓ To provide maximum facilities along with latest information. (e-mail alerts regarding new books and periodicals etc) to the students.
- ✓ More number of books will be made available to the students for home issue.

Declaration by the Head of the Institution

I certify that that the data included in this Re-Accreditation Report (RAR) are true to the best of my knowledge.

This RAR 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 this RAR during the peer team visit.

Signature of the Head of the institution

with seal:

Place:

Date:





Annexure No. 1
B.N. Bandodkar college of Science

Format of

Students' overall Evaluation of the programme and Teaching

(To be filled only after the course results are declared)

Department :

Course :

Year :

The information will be used only for the improvement of the course and teaching in future.

You need not disclose your name if you do not wish to.

1. The syllabus of the course was
 - a) adequate
 - b) inadequate
 - c) challenging
 - d) dull
2. Was the course easy or difficult to understand?
 - a) easy
 - b) manageable
 - c) difficult
 - d) very difficult
3. How much of the syllabus was covered in the class?
 - a) 85 to 100%
 - b) 70 to 85%
 - c) 55 to 70%
 - d) less than 55%
4. What is your opinion about the library material and facilities for the course?
 - a) more than adequate
 - b) adequate
 - c) inadequate
 - d) very poor
5. To what extent were you able to get material for the prescribed readings?
 - a) Easily
 - b) with some difficulty
 - c) not available at all
 - d) with great difficulty
6. How far the teachers encourage student participation in class?
 - a) mostly yes
 - b) sometimes
 - c) not at all
 - d) always

7. If yes, which of the following methods were used?
a) Encouraged to raise questions b) get involved in discussion in class
c) encourage discussion outside class d) did not encourage
8. How helpful were the teachers in advising?
a) Very helpful b) sometimes helpful
c) not at all helpful d) did not advise
9. The teachers' approach can best be described as
a) Always courteous b) sometimes rude
c) always indifferent d) cannot say
10. What effect do you think the internal assessment will have on your course grade?
a) Helps to improve b) discouraging
c) no special effect d) sometimes effective
11. How often did the teachers provide feedback on your performance?
a) Regularly/in time b) with helpful comment
c) often/ late d) without any comments
12. Do you feel that the syllabus of the course is relevant to the job market you have thought of?
13. Can you suggest change in the syllabus?
14. If you have other comments to offer on the course and suggestions for the teacher .

B. N. Bandodkar College of Science, Thane

Annexure No. 2
**Format of
Feedback from Employers**

Ref No./BSC/
Date :-

To,
The Employer

Ref No. :-
Subject :- Feedback of students of B.N.Bandodkar College.

Sir,

We (B.N.Bandodkar College of Science, Thane) are going for “NAAC” Reaccreditations for which we require some information about our students employed in your organization. We would like to have following information about Mr. / Ms.

Are you satisfied with the knowledge behavior and sincerity of the student?

Our college Mission is “To mould students into rational thinkers, competent workers and socially aware citizens”. Whether the above said student is moulded as per our mission ?

If you take some time from your busy scheduled and sends us this information it will be of immense use to our college for “NAAC” reaccreditations.

Hoping for favorable reply and thanking you in anticipation.

Yours faithfully

Principal
B.N.Bandodkar College of Science
Thane.

Annexure No.3
Format of
Form for (Mentor System)
Teacher Guardian Scheme

Name of the student

Class _____ R.No. _____ Subjects

Results of last examination appeared year of passing (Xerox of
marksheet may be attached)

Name of 1) Father

a) Educational Qualification

b) Occupation

2) Mother

a) Educational Qualification

b) Occupation

3) Family Income 50,000 to 1,00000

1,00000 to 2,00000

2,00000 above

Details of other members in the family

Brother/s _____ Educational Qualification

Sister/s _____ Educational Qualification

Residential Address

Phone No.

Are you getting any freeship / scholarship etc

Areas of interest, academics / co-curricular / sports / NSS / NCC / Any
other like drama, Music, singing, dance etc. (Give details)

Participation in the above activities in past years and level at which
participation is done, National / State / District / Inter University /

B. N. Bandodkar College of Science, Thane

Intercollegiate

Your Plans / aims / goals of further education / other activities if any

Annexure No.4
Format of
Mentor System
Feed-Back Form From Teacher

B. N. Bandodkar College Of Science Thane.

Mentor System
Feed-Back Form from Teacher (200 -)

- 1) Name of the teacher :
- 2) Department :
- 3) Class and r. No. Of students with whom you had interaction / dialogue
- 4) How was the response from the students?
- 5) Whether they have shared their problems /views /difficulties with you?
- 6) Are the students free to you about the different points included in

the form?

7) What are the problems / difficulties expressed by students? Give the list :

8) Your remarks /suggestions :

Annexure No.5
Format for
Peer – Assessment Form

Vidya Prasarak Mandal's

B. N. Bandodkar College of Science, Thane.

PEER – ASSESSMENT FORM

- 1 Name of the Assessor :**
- 2 Department :**
- 3 Name of the Assesses :**
- 4 Department :**
- 5 Assessment Year :**

N.B.

- vi. Please go through the contents of the form carefully before responding.
- vii. Please feel free to indicate your frank responses.
- viii. The contents of the form will be kept confidential.
- ix. Please encircle your responses on the given 10 point scale.

PART – A

Sr. No.	Attributes for Perusal	Please encircle your response on the given 10 points scale									
1	How long have you known the persons (No. of years)	Frequently 10 9 8 7 6 5 4 3 2 1 Rarely									
2	How often do you interact?	10 9 8 7 6 5 4 3 2 1									
3	What is your felt or perceived assessment of the following traits of the assesses :	Excellent Poor									
	a) Sociability	10	9	8	7	6	5	4	3	2	1
	b) Sense of Humor	10	9	8	7	6	5	4	3	2	1
	c) Tolerance of different viewpoints	10	9	8	7	6	5	4	3	2	1
	d) Sensitivity to others' feelings	10	9	8	7	6	5	4	3	2	1
4	Regularity / Punctuality in the College	10	9	8	7	6	5	4	3	2	1
5	Co-operation extended to peers while discharging the duties assigned to them	10	9	8	7	6	5	4	3	2	1
6	Manner and style of functioning w.r.t. co-curricular and extra curricular activities.	10	9	8	7	6	5	4	3	2	1
7	Ability to inspire colleagues, solicit co-operation and foster team spirit	10	9	8	7	6	5	4	3	2	1

8	Etiquettes, manners and refinement of behavior	10	9	8	7	6	5	4	3	2	1
9	Mastery over the subject(s) taught	10	9	8	7	6	5	4	3	2	1
10	Ability to share information and add to your knowledge	10	9	8	7	6	5	4	3	2	1
11	Range of interest	10	9	8	7	6	5	4	3	2	1
12	Reading habits general knowledge & scholastic leanings	10	9	8	7	6	5	4	3	2	1
13	Rapport with members of the teaching staff	10	9	8	7	6	5	4	3	2	1
14	Rapport with members of the non-teaching staff	10	9	8	7	6	5	4	3	2	1
15	Treatment given of students	10	9	8	7	6	5	4	3	2	1
16	Willingness to help other or to serve the society	10	9	8	7	6	5	4	3	2	1
17	Openers resilience, humane approach etc.	10	9	8	7	6	5	4	3	2	1
18	Attitude to or vision of life	10	9	8	7	6	5	4	3	2	1

19	Integrity as an individual	10	9	8	7	6	5	4	3	2	1
20	Overall rating of the staff members	10	9	8	7	6	5	4	3	2	1

PART – B

N.B.: Please reply freely & rankly.
Your authentic responses would enable us to adapt ourselves to cater to your genuine expectation from us.
This would enhance the quality of teaching and the image of the organization.

👉 What do you like most about him / her?

👉 What you don't like about him / her?

👉 What are your suggestions for bringing about desirable changes in the faculty Member?

Please mention only the most important or glaring aspects.

Annexure No. 6

Format for

Student's Opinion about Teachers

B. N. BANDODKAR COLLEGE OF SCIENCE, THANE.

STUDENT'S OPINION ABOUT TEACHERS

Students are requested to express their opinion about their teachers in the following format & give points as – [5] = Excellent. [4] =Very Good. [3]=Good [2]= Average. [1] = below Average.

They should write only the figure in the Writing name & roll number is optional. But they should write the class & division.

Name of the Teacher

Subject taught

Student's name & Roll No. (optional)

Class & Division

A. Teaching Skills :-

- | | | | |
|-------|---|---|---|
| i. | Preparation for the subject. | [|] |
| ii. | Use of examples, illustrations, in teaching. | [|] |
| iii. | Readiness & ability to solve student's difficulties. | [|] |
| iv. | Ability to motivate the students for higher studies in the subject. | [|] |
| v. | Skill in making the subject interesting. | [|] |
| vi. | Use of interactive teaching – seminar, tutorials, group discussions
periodic tests asking short questions etc. | [|] |
| vii. | Practice of giving References for further reading. | [|] |
| viii. | Practice of suggesting questions at the end of a topic. | [|] |
| ix. | Training students for college / university examinations. | [|] |

B. General :-

- | | | | |
|-------|---|---|---|
| i) | Regularity & punctuality in conducting lectures & practicals. | [|] |
| ii) | Class control. | [|] |
| iii) | Command over the language of teaching. | [|] |
| iv) | Skills in explaining difficult points. | [|] |
| v) | Availability to students. | [|] |
| vi) | Attitude to students friendly & encouraging. | [|] |
| vii) | Helping weak students by giving extra time etc. | [|] |
| viii) | Updating of information. | [|] |
| ix) | Counseling students in career / placement / personal. | [|] |

x) Sense of involvement & dedication to teaching.

[]

Annexure No.7

Format for Student's Evaluation Of Non Teaching

B. N. BANDODAKR COLLEGE OF SCIENCE, THANE.

STUDENT'S EVALUATION OF NON TEACHING

Students are requested to express their opinion about non teaching staff in the following format & give points as – [5] = Excellent. [4] =Very Good. [3]=Good. [2]= Average. [1]=below Average.

They should write only the figure in the bracket provided.

Writing name & roll number is optional. But they should write the class & division.

Name :

Class and Division :

Staff and Library :

A. Office Staff :-

- | | |
|--|---------|
| i. Counter Timing | [] |
| ii. Service to the students | [] |
| iii. Punctuality / availability of staff | [] |
| iv. Willingness to help students | [] |
| v. Attitude towards students | [] |

B. Departmental Staff :-

- | | |
|---|---------|
| i)Attitude towards students | [] |
| ii) Punctuality of staff | [] |
| iii)Availability to the students | [] |
| iv) Help rendered if required during practicals | [] |

C. Library :-

- | | |
|--|---------|
| 👉 Library timings - | [] |
| 👉 Availability of text books / Ref books | [] |

👉 Services rendered	[]
👉 Attitude towards students	[]
👉 Reading hall facility	[]
👉 Suggestion	

Annexure No. 8

**Format for
Self Assessment Form For College Teachers**

V.P.M.'s

B. N. Bandodkar College of Science, Thane.

SELF ASSESSMENT FORM FOR COLLEGE TEACHERS

Year of Assessment

- i) Name of the Teacher
- ii) Department
- iii) Qualifications
- iv) Teaching experience :
 - A) Undergraduate
 - B) Post graduate level
- v) Teaching methods Applied :
 - i) Distributing lectures notes
 - ii) Encouraging question in class
 - iii) Announcing topics in advance
 - iv) Holding seminars
 - v) Use of Audio Visual aids
- vi) Academic & professional growth (During Current academic year)
 - i) Research qualification acquired
 - ii) Research projects undertaken
 - iii) Research papers published
 - (if yes, give details)
 - iv) Guidance rendered to research scholars
 - v) Participation in seminars, workshops and conferences
 - vi) Participation in orientation course / refresher course
 - vii) Any other activity
- vii) Participation in Extra-Mural Activities (during current academic year)

B. N. Bandodkar College of Science, Thane

- i) Membership of various committees (Give details) :
- ii) Extra curricular activities – (direct participation) debates, cultural, counseling's, Planning forum, union, NCC, etc.
- iii) Helping college administration
- iv) Your independent participation in community services
- viii) Other matters
 - i) Reading Habits general / Research
 - ii) Details of a specific item(s) of work done by which you think especially noteworthy
 - iii) Your positive points
 - iv) Negative points
 - v) How do you place yourself with student's evaluation report about you
- vi) If, in your opinion you were unable to maintain the expected quality or quantity in performance in any respect indicate briefly your reasons why this happened.

Evaluation by the senior most Lectures of the Department or Head of the Department or Principal

- a) State whether the facts stated above are correct, if not, state the correct facts.
- b) Do you agree the self – assessment of his performance done by the teacher ?
If not, give reasons why you do not agree.

Actual verification			Evaluation		
Item	Correct	Exaggerated	Excellent	Very Good	Aver. Poor
I					
II					
III					
IV					
V					
VI					
VII					
VIII					
IX					
X					

*Evaluation is not expected in column No. I and II

Signature of the Head of the Department or
Teacher In-Charge of the Department

B. N. Bandodkar College of Science, Thane

Date :-

Observation of the Principal :

(Signature)

B. N. Bandodkar College of Science											
OCTOBER			NOVEMBER			DECEMBER			JANUARY		
Day	1	2	Day	1	2	Day	1	2	Day	1	2
1	1	2	1	1	2	1	1	2	1	1	2
2	3	4	3	3	4	3	3	4	3	3	4
3	5	6	5	5	6	5	5	6	5	5	6
4	7	8	7	7	8	7	7	8	7	7	8
5	9	10	9	9	10	9	9	10	9	9	10
6	11	12	11	11	12	11	11	12	11	11	12
7	13	14	13	13	14	13	13	14	13	13	14
8	15	16	15	15	16	15	15	16	15	15	16
9	17	18	17	17	18	17	17	18	17	17	18
10	19	20	19	19	20	19	19	20	19	19	20
11	21	22	21	21	22	21	21	22	21	21	22
12	23	24	23	23	24	23	23	24	23	23	24
13	25	26	25	25	26	25	25	26	25	25	26
14	27	28	27	27	28	27	27	28	27	27	28
15	29	30	29	29	30	29	29	30	29	29	30
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17											
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31											

Activity	Activity	Activity	Activity	Activity	Activity
1st term and 1st exam 1st X.B.Sc. and 1st B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	2nd term and 2nd exam 2nd X.B.Sc. and 2nd B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	3rd term and 3rd exam 3rd X.B.Sc. and 3rd B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	4th term and 4th exam 4th X.B.Sc. and 4th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	5th term and 5th exam 5th X.B.Sc. and 5th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	6th term and 6th exam 6th X.B.Sc. and 6th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams

Activity	Activity	Activity	Activity	Activity	Activity
1st term and 1st exam 1st X.B.Sc. and 1st B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	2nd term and 2nd exam 2nd X.B.Sc. and 2nd B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	3rd term and 3rd exam 3rd X.B.Sc. and 3rd B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	4th term and 4th exam 4th X.B.Sc. and 4th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	5th term and 5th exam 5th X.B.Sc. and 5th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	6th term and 6th exam 6th X.B.Sc. and 6th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams

Activity	Activity	Activity	Activity	Activity	Activity
1st term and 1st exam 1st X.B.Sc. and 1st B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	2nd term and 2nd exam 2nd X.B.Sc. and 2nd B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	3rd term and 3rd exam 3rd X.B.Sc. and 3rd B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	4th term and 4th exam 4th X.B.Sc. and 4th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	5th term and 5th exam 5th X.B.Sc. and 5th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams	6th term and 6th exam 6th X.B.Sc. and 6th B.Sc. College community Meetings (Degree & B collage) Degree & B collage staff meeting Student council meeting College & B collage exams

B.N.Bandodkar College of Science

	FEBRUARY							MARCH							APRIL							MAY						
	Maagh / Phalgun (Shake 1931)							Phalgun/ Chaitra (Shake 1931-32)							Chaitra / Vaishakh (Shake 1932)							Vaishakh / Jeshtha (Shake 1932)						
SUN	7	14	21	28				7	14	21	28				4	11	18	25				30	2	9	16	23		
MON	1	8	15	22				1	8	15	22	29			5	12	19	26				31	3	10	17	24		
TUE	2	9	16	23				2	9	16	23	30			6	13	20	27					4	11	18	25		
WED	3	10	17	24				3	10	17	24	31			7	14	21	28					5	12	19	26		
THU	4	11	18	25				4	11	18	25			1	8	15	22	29					6	13	20	27		
FRI	5	12	19	26				5	12	19	26			2	9	16	23	30					7	14	21	28		
SAT	6	13	20	27				6	13	20	27			3	10	17	24					1	8	15	22	29		
	1 st week TYBSc Prelim Theory							1 st week Onward: Degree College Theory Exam							1 st week L.M.C. Meeting college committee meeting (degree college)							3 rd May Last working day for Jr. College						
	3 rd week Principal-HOD meeting IT club activity							(FYBSc, SYBSc, ATKI and Failures)							college committee meeting (Junior college)													
	4 th week Parents' meeting Defaulters							3 rd week FYJC 2 nd Term Theory Exam							Jr. and degree staff member's meeting HOD meetings- VPM													
	S.Y.J.C. Board Practical Exam.							S.Y.J.C. Board theory Exam.							2 nd week F.Y.B.Sc and S.Y.B.Sc. Results													
	College School Complex activity														3 rd week S.Y.B.Sc. and T.Y.B.Sc. Admissions													
															4 th week F.Y.J.C. Result and S.Y.J.C. Admission Library committee meeting													
															Past student – Principal meeting 30 th April : End of second term													
	Teaching Days – Degree Junior 22 22							Teaching Days – Degree Junior Nil 25							Teaching Days – Degree Junior 24							Teaching Days- Nil						
	12 th Feb Mahashivratri							16 th March Gudi Padawa							2 nd April Good Friday													
	19 th Feb 2010 Shivjayanti							24 th March Ramnavmi							14 th April Ambedkar Jayanti													
															Summer Vacation 30 th April Onwards (Degree)							Summer Vacation 1 st May Maharashtra Day 3 rd May to 14 June (Junior college)						

Annexure No. 10

Ongoing M.Sc(Research)., M. Phil and Ph.D Projects.

SR. NO.	TITLE OF THE PROJECT, NAME OF THE STUDENT	NAME OF THE GUIDE/ SUBJECT
1	“Study of insect pest from the mangrove and associated plants of Thane creek and Ulhas river estuary.” (2003) Mr. Hemant V. Karkhanis Ph.D.	Dr. R.P.Athalye. / Zoology
2	“Studies on pollution status fish fauna diversity and biology of some important fishery species viz <i>Mysus gulio</i> (ham) <i>Boliophthalmus dussumieri</i> (cuv and val) <i>Scylla serrata</i> (forskle) and <i>Cardium asiaticum</i> (brug) from Ulhas river estuary and Thane creek.” (2003) Mr Sudesh Rathod Ph.D.,	Dr. Mrs. N N Patil./ Zoology
3	Bioaccumulation of Mercury and a few pesticides in fish of thane creek and ulhas river estuary and its relation to dietary intake and contaminant levels among fish eaters.” (2004) Mrs. Jayashri Menon Ph.D.	Dr. Mrs.S.V. Mahajan /Zoology
4	“Prospects of Butterfly farming in Western Ghats of Maharashtra.” (2005) Mrs. Alka Bhagwat . Ph.D Zoology YCMOU	Dr. Mrs M. K. Pejaver. /Zoology
5	“Diversity of Avifauna and habitat Management in and around Mumbai.” (2006) Shriharsha Nitsure Ph.D Zoology YCMOU	Dr. Mrs M. K. Pejaver. /Zoology
6	“Study of the effect of sand dredging and other anthropogenic activities on the abiotic and biotic components of upstream of Vaitarna river near Ghodmal, Vada.” (2006) Kum Patil Shilpa Laxman Ph.D.,.	Dr. R.P.Athalye /Zoology
7	"Limnology and biodiversity of river Gadhi and Deharang Reservoir." (2006) Minakshi Narendra Gaurav Ph.D.,.	Dr. Mrs M. K. Pejaver. /Zoology
8	“Ethanobotanical studies on some plants: A case study of Bhil-Bhilalas in Jhabua	Dr. N.S. Tekale / Botany

	district of Madhya Pradesh in Central India.” (2006) Singh Rani S Ph.D., .	
9	“Conservation strategies of some ethanobotanical plants used by Warli tribe in Thane district of Maharashtra I.” (2006) Smt. Shreya S. Bhanap Ph.D.,.	Dr. N.S. Tekale/ Botany
10	“The study of intertidal fauna of creeks of North Mumbai to access the present pollution status.” (2006) Vishakha N. Shingala Ph.D.,	Dr. Mrs. N N Patil /Zoology

SR. NO.	TITLE OF THE PROJECT, NAME OF THE STUDENT	NAME OF THE GUIDE/ SUBJECT
11	“Biosystematics of Orchids of western Ghats with special emphasis on taxonomy.” (2006) Sameer Surve Ph.D.,.	Dr. Mrs. M. S. Mulgaonkar/ Botany
12	“Study of macrofauna and life cycle of dominant fauna from the household biocompost.” (2006) Miss Gayetri Sagade Anil M. Sc.	Dr. Mrs M. K. Pejaver. Zoology
13	“Investigation of magnetic properties of rare earth intermetallic systems.” (2006) Ms. Shalaka Navale. M. Phil Anna Durai University of distant education. . Rgistered at TIFR.	Dr. M N Nyayate / Physics
14	“Study of root zone technology for the treatment of waste water.” (2007) Nazar Swati Shantanu Ph.D., Zoology YCMOU	Dr. Mrs M. K. Pejaver). / Zoology
15	“Effect of water quality on ethology of some fresh water rotifers in accordance with culture techniques and toxicity of selected insecticides (Deltamethrin and monocrotophos).” (2007) Smt. Sampada Ketkar Ph.D.,	Dr. Mrs M. K. Pejaver). / Zoology
16	“Study of glucosamine and its oligomers.” (2007) Adesh Naik Nand kumar M.Sc.	(Dr. A. N. Bedekar). / Chemistry
17	“Study of chemistry and application of polymer chitosan and its monomer glucosamine.” (2007) Pise Abhinay C Ph.D.,	Dr. M. V. Rathnam). / Chemistry
18	“Molecular interactions studies of binary	Dr. M. V.

	liquid mixture of esters with aliphatic hydrocarbon.” (2007) Mankumar Sharad Dattatray Ph.D.,	Rathnam). / Chemistry
19	“Evaluation of excess thermodynamics and transport properties of some binary liquid mixtures (aliphatic esters+aromatic hydrocarbons).” (2007) Jain Kirti kumar Ph.D.,	Dr. M. V. Rathnam). /Chemistry
20	“Fabrication of low energy linear accelerator and application to investigate the exotic magnetic properties of intermediates.” (2007) Mr. Umesh Tonbe M. Sc. Physics Registered in IIT SAMEER.	Dr. M N Nyayate). /Physics
21	“Studies on seed morphometry of some epiphytic orchids from Thane and adjacent region.” (2008) Ms.Sanghamitra Ram Swarup Ph.D.,	Dr. Mrs. M. S. Mulgaonkar / Botany
22	“Studies on identification and isolation of root mycorrhizae of some epiphytic orchids from Thane and adjacent region.” (2008) Mrs. Ashwini Jaydeep Apte Ph.D.,	Dr. Mrs. M. S. Mulgaonkar / Botany
Sr. No.	Title of the project, Name of the student	Name of the Guide/ subject
23	“Availability of beta carotene in seasonal un conventional vegetables by Warli tribe in Thane district II.” (2008) Pallavi Vishnu Nagvekar M.Sc.	Dr. N.S. Tekale / Botany
24	“To analysis the impact of environmental awareness programmes through NGO’s on general population in Thane City.” (2008) Mrs. Pradnya Kavinde. Ph.D YCMOU	Dr. Mrs M. K. Pejaver). / Zoology
25	“Study of organic liquid-liquid mixtures of esters and cyclic ethers.” Mr. Ambavadekar Devappa R Ph.D., 2008	Dr. M. V. Rathnam). /Chemistry
26	“Study of heterogeneous catalysis in organic synthesis.” (2008) Thatte Chittaranjan Sharad, Ph.D	Dr. M. V. Rathnam). /Chemistry
27	“Development of chiral LC-MS method and its application in bio availability and bio equivalence study.” (2008) Pradhan	Dr. M. V. Rathnam). /Chemistry

	Varad Ravindra Ph.D.,	
28	“Thermo physical properties of ester + ketone Binary mixture solvents. Application of viscosity models.” (2008) Mr. Mohite Sudhir Jayasing Ph.D., 2008	Dr. M. V. Rathnam). /Chemistry
29	“Degradation of Rubisco bound Ca-IP and its properties from <i>Solanum xanthocarpum L.</i> ” (2009) Pawar Ashwini Arun M.Sc.	Dr. Mrs. A. S. Goswami - Giri /Chemistry
30	“Study of organic carbon accumulation capacity of sediment and macro benthos found around mangroves across Thane creek areas.” (2009) Chaudhari Sheetal Ph.D.	Dr. Mrs M. K. Pejaver). / Zoology
31	“Comparative ecological study of three lakes at Kalwa-Thane.” (2009) Mr. Arun Paradhi Ph.D.	Dr. R.P.Athalye /Zoology
32	“Modern analytical techniques for determination of antispasmodic drug in combination with antiinflammatory or analgesic drug products.” (2009) Rajeev kumar Rajbahadur Singh Ph.D.,	Dr. M. V. Rathnam /Chemistry
33	“Development of matrix from outer hard cover of Maharashtra mango seeds and its applications.” (2009) Mahale Saiprabha M. M.Sc.	Dr. Mrs. A. S. Goswami - Giri Chemistry
34	“Excess transport properties some non electrolyte (amine+hydrocarbon) binary liquid mixture.” (2009) Ms Sonawane priya J. M.Sc.	Dr. M. V. Rathnam). Chemistry
35	“Viscosity and acoustic mixture aliphatic ester+ketone binary mixture.” (2009) Reema Tajuddin Qamersultana M.Sc.	Dr. M. V. Rathnam/. Chemistry

Annexure No. 11

List of research papers published in refereed journals by the faculty.

A) INTERNATIONAL JOURNALS

1.	M.S. Mulgaonkar and G.T. Dabhade (2003) “Palynological study of a maritime indicator Orchid- <i>Acampe premrosa</i> (Roxb) Blatter and Mc Cann from Mumbai (India).” Int. J. Mendel, 20 (3-4):103-104.
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2.	Moitreyee Saha , Meeta Bhot, Anita Phatak and Naresh Chandra (2003) " <i>In Vitro</i> Propagation of <i>Carica papaya</i> L. variety Coorg honey dew by nodal explants." Asian J. of Microbiol. Biotech. Env. Sci., 5(3): 331-332.
3.	Saha, M. , Phatak, A. and Chandra, N. (2004) "Somatic embryogenesis in different varieties of <i>Carica papaya</i> L." Journal of Tissue Research, 4 (1): 143-145.
4.	M.S. Mulgaonkar and G.T. Dabhade (2004) "Pollen analysis of some species of genus <i>Aerides</i> Lour from Maharashtra." Int. J. Mendel, 21(1-2): 39-40.
5.	M.S. Mulgaonkar (2004) "Some observations of pollinia in some species of genus <i>Dendrobium</i> . SW. from Maharashtra." Int. J. Mendel, 21 (3-4): 83-84.
6.	Saha, M. , Phatak, A. and Chandra, N. (2004) "Generation of synthetic seeds from different varieties of <i>Carica papaya</i> L." Journal of Tissue Research, 4(2): 207-209.
7.	Saha, M. , Phatak, A. and Chandra, N. (2004) " <i>In vitro</i> culture studies in four dioecious varieties of <i>Carica papaya</i> L. using axillary buds from field-grown plants." Journal of Tissue Research, 4(2):211-214.
8.	M.V. Rathnam , Sudhir Mohite and S.S. Kumar (2005) "Viscosity, Density and refractive index of Binary Liquid mixture of some Ester and Hydrocarbons at 308.15 and 313.15K." J. Chem. Engineering Data, 50: 325-329.
9.	Saha, M. , Phatak, A. and Chandra, N. (2005) "Hyperhydricity in axillary bud explants of <i>Carica papaya</i> L. regenerated <i>in vitro</i> ." Journal of Tissue Research, 5 (1) 323-325.
10	M.S. Mulgaonkar and G.T. Dabhade (2005) "Palynological observation of some corticolous orchids from Maharashtra under SEM." Phytotaxonomy, 4: 131-134.
11	M.S. Mulgaonkar (2005) "Studies on dermal anatomy of three corticolous orchids from India." Int. J. Mendel, 22(3-4): 105-106.
12	M.S. Mulgaonkar (2005) "Dermal anatomy of some species of genus <i>Aerides</i> lour from Maharashtra." Int. J. Mendel, 22(3-4): 107-108.
13	M.S. Mulgaonkar (2005) "Studies on dermal anatomy of some terricolous orchids from Sahyadri (Western Ghats)." Int. J. Mendel, 21(1-2): 61-63.
14	M.S. Mulgaonkar (2005) "Study of pollinium of three beautiful Indian Orchids under electron microscopy." Phytotaxonomy, 5:89-92.
15	K.D. Phal and U.D. Dixit. (2005) "On estimating scale parameter of a truncated gamma distribution." Soochow Journal of Mathematics, 31: 515-523.
16	Anita Goswami-Giri (2007) "Effect of Biomedical waste Ash on growth and yield of Fenugreek and Mustard." Bionano Frontier, 1:

	64-66.
17	M.S. Mulagonkar (2007) "SEM study on the observation of pollinia of two terricolous orchids from Maharashtra." Int. J. Mendel, 24 (1-2): 55-56.
18	M. Saha (2007) " <i>In vitro</i> propagation of precociously germinated seedlings of <i>Carica papaya</i> L. variety Madhubindu." Bionano Frontier, 1 (1): 55-59.
19	Vaishali Somani and Madhuri Pejaver (2007) "Evaluation of Pollution in the Lake Masunda, Thane, Maharashtra." J. Ecobiol, 20(2): 163-166.
20	Nayana Raut, Milan Gholba and Madhuri Pejaver (2007) "Cluster Analysis of Phytoplankton from the lakes of Thane." Maharashtra J. Ecobiol, 20(2): 101-105.
21	Nayana Raut, Milan Gholba and Madhuri Pejaver (2007) "Response of Phytoplankton of Thane Lakes (Maharashtra) to Physico-chemical parameters." J. Ecobiol, 21(3): 209-216.
22	V.M. Jamdhade (2007) "Studies on Seed Mycoflora of Green gram and Black Gram." Bionano Frontier, 1(2): 137-139.
23	M.K. Pejaver and Sampada Ketkar (2008) "Comparative Study of effect of three different types of effect of three different types of food on population density of freshwater rotifer <i>Monostyla</i> sp." Aquatic Ecology, 1: 148-156.
24	M.V. Rathnam , Rajeev Kumar R. Singh and M. S. Kumar (2008) "Excess Volumes of Binary Solutions of Methyl Formate, Ethyl Formate, Propyl Formate and Benzyl Acetate with Bromo-, Chloro-, and Nitrobenzenes at (303.15, 308.15, and 313.15) K." J. Chem. Engineering Data, 53: 265 -270.
25	Amol Patwardhan and R.P. Athalye (2008) "A New Species of <i>Xanthopenthes fleutiaux</i> 1928 from Maharashtra, India (Coleoptera: Elateridae)." Genus, 19 (4): 675-678.
26	R.P. Athalye , Amol Patwardhan and G. Platia (2009) "A New species of <i>Metricaulacus</i> Schwarz, 1901, from 1901, from Maharashtra, India." Bionano Frontier, 2 (1): 15-17
27	V. M. Jamdhade (2009) " <i>In Vitro</i> multiplication of important horticulture Crop Banana (<i>Musa paradisica</i> L)." Bionano Frontier, 2 (1): 124-126.
28	M.J. Kolet (2009) "Mycoflora associated with Biodeterioration of paper from Mumbai and Thane region of Western India." Bionano Frontier, 2(1): 68-70.
29	V.M. Jamdhade (2009) "Effect of Multi-micronutrient Application through Soil and fertigation on sweet Orange Production." Bionano Frontier, 2(1): 85-87.
30	M.V. Rathnam , Sudhir Mohite, M.S. Kumar (2009) "Thermophysical Properties of Isoamyl Acetate or Methyl Benzoate + Hydracarbon Binary Mixtures, at (303.15 and 313.15) K." J.

	Chem. Engineering Data, 54: 305-309.
31	K.D. Phal and Dr. U.J. Dixit (2009) "Estimation of $P\{X<Y\}$ for uniform distribution in the presence of outliers." Journal of Prob & statistical Sciences, 7 (1):11-18.
32	Rani Singh and Bhavna Motwani (2009) "Screening of <i>Achyranthus aspera</i> , <i>Acorus calamus</i> , <i>Ceasalpinia crisia</i> for duretic activity." Bionano Frontier, 2 (1): 53-54.
33	Rani Singh (2009) "Comparative study and conservation of some mangroove species." Bionano Frontier, Special issue, 89-90.
34	Amol Patwardhan, Rainer Schimmel and R.P. Athalye (2009) "A New genus <i>Pentodensus</i> from north weastern ghat,Maharastra, India." Genus, 20(1): 53-60.
35	Goldin Quadros, Sonia Sukumaran and R.P. Athalye (2009) "Impact of changing ecology on intertribal polychaetes in an anthropogenically stressed tropical creek, India." J. Aqatic Ecology ISSN1 386-2588 print 1573-5125(online) DOI10,1007/5 10452-009-9229-8S.

B) NATIONAL JOURNALS

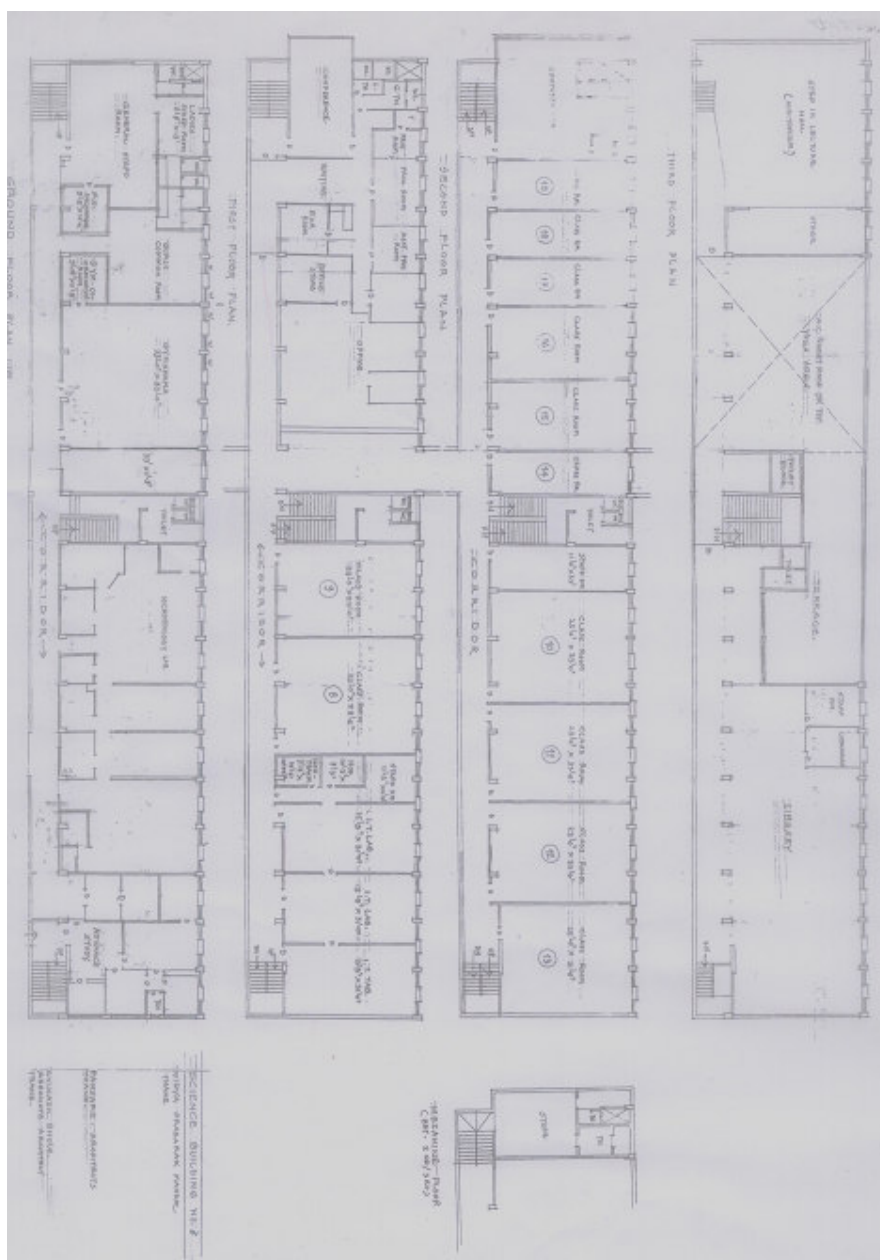
1)	M.K. Pejaver and Nayana Raut (2003) "Study of biodiversity of some macrophytes infested lakes from Thane city, Maharashtra." <i>Nature Env't. and Pollu. Tech.</i> , 2(3): 277-281.
2)	M.K. Pejaver and Somani Vaishli (2003) "Rotifer diversity in lake Masunda, Thane, (Maharashtra)." <i>J. Aqua Biol.</i> , 18 (1): 23-27.
3)	P.N. Kurve and G.V. Kulkarni (2003) "Toxic effects (by Lso Analysis) of Endosulfan on A Cyclopoid copepod <i>Mesocyclops leuckarti</i> (Claus, 1857)". <i>J. Comp. Toxicol. Physiol</i> , 1(1): 19-21.
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6)	P.G. Virkar, R.P. Athalye , P.N. Kurve , M.U. Borkar and Goldin Quadros (2004) "Comparative study of abiotic and biotic components of a aquaculture pond and its adjacent Thane creek area, Maharashtra, India." <i>Journal of Aquatic Biology</i> , 19(1): 73-78.
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10)	M.K. Pejaver and P.N. Kurve (2004) "Butterflies of B.N. Bandodkar College campus, Thane, Maharashtra." <i>Insect Environment</i> , 10 (3):18.
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14)	M.K. Pejaver and Nayana Raut (2005) "Survey of diversity of plankton attached to macrophytes from weed infested lakes." <i>J. Aquatic Biology</i> , 20(1): 1-7.

15)	M.S. Mulgaonkar (2005) "Study of pollinia of some corticolous orchids from Maharashtra under SEM." Indian J. of Applied and Pure Bio., 20(1) 35-38.
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19)	M.K. Pejaver , Raut Nayana and M.J. Gholba (2006) "PLS response (zooplankton) to physico – chemical parameters Thane lakes (Maharashtra)." J.Aqua. Biol., 21 (1): 32-36.
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21)	R.P. Athalye and Goldin Quadros (2006.) "A non-statistical pollution evaluator index for coastal aquatic ecosystems based on abiotic environmental parameters." Journal of Aquatic Biology, 21(1): 88-92.
22)	R.P. Athalye , M.U. Borkar and Goldin Quadros (2006) "Occurrence of Heavy metals in abiotic and biotic components of the Mangrove ecosystem of Thane Creek." Ecol. Env & Cons., 12(4): 723-728.
23)	Mishra Vidya, Goldin Quadros and R.P. Athalye (2007) "Hydrological study of Ulhas River Estuary. Maharashtra, India." J. Aqua Biol., 22 (1): 97-104.
24)	M.K. Pejaver , Vaishali Somani and M.J. Gholba (2008) "Study of Phytoplankton population in lake Masunda, Thane, employing multivariate analysis." Eco, Env. and Cons., 13(4): (847-848).
25)	M.K. Pejaver and Minakshi Gurav (2008) "Study of water quality of Jail and Kalwa lake Thane Maharashtra." J. Aqua. Biol., 23 (2): 44-50.
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28)	Rani Singh (2008) "Analysis of leaves, pods, seeds and physiochemical properties of starch in tubers of <i>Vigna capensis</i> Walp." Indian Journal of nutrition and dietetics, 45: 484-487.
29)	A.N. Bedekar , Abhinay Pise, Adesh Naik and Paresh Bhosale. (2009) "Standardization of Fenugreek extract using 4 - hydroxyisolumine as a marker compound." I. Journal of Chem. Soc., 86: 192-194.

Annexure No.12
Master Plan of the Campus



Annexure No.14

Endowment Prizes DEGREE COLLEGE

1. **Late Mrs. Anandibai Krishna Gokhale Science Prize of Rs.135/-**
(Through Late Shri. R.K.Gokhale, Thane). Being the first in rank among the students of this college passing B.Sc. Examination of Mumbai University.
2. **Late Shri. Gunakar N. Joshi Smarak Yojana Science Prize of Rs.150/-**(Through Past Student's Association).Being the first in rank amongst the students of this college passing B.Sc. Examination of Mumbai University.
3. **Shri Swami Samarth Prize of Rs.170/-**(Through Dr.R.P.Athalye & Family).To the students of this college passing T.Y.B.Sc. Examination of the University securing highest marks in Zoology at F.Y.B.Sc. /S.Y.B.Sc. & T.Y.B.Sc. taken together and who has completed the B.Sc. Degree Course in three years without A.T.K.T.
4. **Shri. Swami Samarth Prize of Rs.100/-** (Through Dr.R.P.Athalye & Family).To be awarded to the student who has secured first prize in Music Competition.
5. **Shri. Dattaram S. Natekar & Mrs. Kamal D. Natekar, Thane, Science Prize of Rs.45/- in memory of their son Late Vijay Natekar.**Being the first in rank among the students of this college passing B.Sc. Examination.
6. **Shri. Dattaram S. Natekar & Mrs. Kamal D. Natekar Thane Science Prize of Rs.45/- in memory of their son Late Vijay Natekar.**Securing highest marks from amongst Backward Class students of this college passing B.Sc. Examination.

7. **Late Prof. Dr. S.S.Borgaonkar Prize of Rs.270/-**(Through Prof. S.K.Borgaonkar).To the student of this college passing T.Y.B.Sc. Examination of the University securing highest marks in zoology.
8. **Late Shri. Mandar Suryakant Joshi Prize of Rs.301/-** (Through Shri. S.M.Joshi, Thane).To be awarded to the best NCC cadet of this college alternately from Boys/Girls NCC (Army Wing) every year.
9. **Shri. Dhondo Waman Tillu Science Scholarship of Rs.1000/-** (Through Vidya Prasarak Mandal, Thane).To be awarded to the student studying in post graduate Science Class / MBBS / Engineering.
10. **Late Shri Deepak Ganesh Kokaje Prize of Rs.270/-**To the best student of this college passing T.Y.B.Sc. Exam of the University securing highest marks in Physics.
11. **Late Shri. Bhagwandas Huku Hotchand Keshwani Prize of Rs.270/-**To be awarded to the student of this college securing highest marks in Mathematics.
12. **Late Shri. Bhoir Himanshu R. Prize of Rs.270/-**To be awarded to the students of this college passing T.Y.B.Sc. Exam. Securing highest marks in Botany.
13. **Late Smt. Indira Phadke Prize of Rs.270/-**(Through Prof. Mrs. S.M.Phatak)To be awarded to the student of this college passing T.Y.B.Sc. Exam. securing highest marks in Statistics.
14. **Late Shri. G.R.Patil and Late Smt. S.G.Patil Prize of Rs.270/-**(Through Ex-Principal Shri. C.G.Patil, Thane). Being the first in F.Y.B.Sc. in the College Examination.
15. **Late Shri. G.R.Patil and Late Smt. S.G.Patil Prize of Rs.270/-** (Through Ex-Principal Shri. C.G.Patil.)Being the first in S.Y.B.Sc. in the College Examination.

16. **Late Shri. G.R.Patil and Late Smt. S.G.Patil Prize of Rs.270/-**(Through Ex-Principal Shri. C.G.Patil, Thane).Being the first in M.Sc. Part II in the College.
17. **Mayuresh and Alpana Past Students Statistics 1984 Rs.270/-**(Through Past Students Mr. Mayuresh Dhond & Alpana Gupte)Being the first in Statistics in T.Y.B.Sc. Examination.

Scholarships :-

1. National Merit Scholarship
2. Open Merit Scholarship - State Government open merit Scholarship XI, XII and XIII th standard (80% or more in S.S.C. and for renewal 45% or more in F.Y.J.C. and 50% in HSC) above 80%.
3. B. C. Scholarship (for SC, ST, NT, SBC, OBC)
4. Fee-concessions to the wards of Primary / Secondary Teachers, Freedom Fighters, Jawans, Ex-servicemen, and EBC.
5. Government Research Fellowship (for Ph.D students)
6. Financial Assistance to the Needy and Financially Backward class Students from (F.Y.B.Sc. To M.Sc. University of Mumbai)Post Graduate open

Annexure No. 15

**B.N.Bandodkar College of Science, Thane – 400 601
College Committee List
2008-2009**

Note : Principal is the chairperson of all the committees by default

1) Planning and Management Forum a. Prin. Dr. (Mrs.) M.K.Pejaver b. Vice-Prin. (Mrs.) M.P.Akolkar (Coordinator) c. Vice-Prin. Mr. R.T.Kulkarni d. Mr. S.G.Medhekar e. Mr. V.D.Golatkhar f. Dr. (Mrs.) M.S.Mulgaonkar g. Dr. (Mrs.) N.N.Patil	2) Calender Committee : a. Dr. (Mrs.) N.N.Patil (Coordinator) b. Mrs. M.M.Ranade c. Mr. A.D.Shet d. Dr. (Mrs.) S.V.Mahajan e. Dr. (Mrs.) M.U.Borkar
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<p>h. Mr. A.P.Patil i. Mrs. M.T. Wankhede-Barsagade j. Mr. R.T. Misal (Office Supdt.)</p>	
<p>3) Grievance Committee : a. Prin. Dr. (Mrs.) M.K.Pejaver b. Vice-Prin. (Mrs.) M.P.Akolkar (Coordinator) c. Vice-Prin. Mr. R.T.Kulkarni d. Dr. U.R.Pandit e. Mrs. V.Sudha f. Mrs. S.S.Dhakane g. Mr. R.T.Misal (Office Supdt.)</p>	<p>4) Quality Advisory Committee (QAC) : a. Prin. Dr.(Mrs.) M.K.Pejaver (Chairperson) b. Mrs. M.J.Gholba (Member secretary, Coordinator) c. Mr. V.M.Phegade d. Dr. V.V.Bedekar (Chairman VPM) e. Mr. S.V.Karandikar (Mang. Comm. Mem., VPM) f. Mr. Dr Agarkar (Nominee from Society) g. Shri Patwardhan (Nominee from Society) h. Vice-Prin.(Mrs.) M.P.Akolkar</p>
<p>5) Student Mentor Cell : a. Mr. A.D.Shet (Coordinator) b. Dr. M.N.Nyayte c. Dr. N.S.Tekale d. Dr. R.P.Athalye e. Mr. A.P.Patil f. Mrs. K.D.Phal g. Dr.(Mrs.) S.V.Mahajan</p> <p>Student Mentor Cell (Junior) A -Prin. Mr. R.T.Kulkarni B Dr. (Mrs.) S.P.Bendigeri</p>	<p>6) Local Managing Committee : a. Mr. S.V.Karandikar b. Dr. V.V.Bedekar c. Mr. U.B.Joshi d. Mr. M.Y.Gokhale e. Dr.(Mrs.) M.S.Mulgaonkar (Elected Member) f. Mr. D.R.Chaudhari (Elected Member) g. Mr. A.P.Patil (Elected Member) h. Mr. G.D.Dharap (Elected Member Non-teaching) i. Prin.Dr.(Mrs.) M.K.Pejaver (Secretary)</p>
<p>7) SPQAC : a. Vice-Prin. (Mrs.) M.P.Akolkar (Coordinator) b. Mrs. C.P.Shikarkhane c. Mr. A.D.Shet d. Mrs. K.D.Phal</p>	<p>8) Staff Academy: a. Mr.A.P.Patil (Coordinator) b. Dr. N.S.Tekale c. Mr. D.R.Chaudhari d. Mr.S.D.Rathod e. Dr. S.D.Joshi d)Mrs. K.R.Karbhari</p>

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<p>9) Internal Quality Assurance Cell (IQAC) :</p> <p>a. Prin. Dr. (Mrs.) M.K.Pejaver (Chairperson)</p> <p>b. Vice-Prin. (Mrs.) M.P.Akolkar</p> <p>c. Mrs. M.J.Gholba (Coordinator)</p> <p>d. Mr.V.M.Phegade</p> <p>e. Mr. V.D. Golatkar</p> <p>f. Dr. (Mrs.) M.S.Mulgaonkar</p> <p>g. Dr. (Mrs.) N.N.Patil</p> <p>h. Dr. M.N.Nyayate</p> <p>i. Dr. R.P.Athalye</p> <p>j. Mr. A.P.Patil</p> <p>k. Mr. S.Venkatraman</p> <p>l. Mrs. M.T.Wankhede-Barsagade</p> <p>m. Mr.P.G.Bamane</p> <p>n. Mr. A.A.Kale</p> <p>o. Mr. R.T.Misal</p>	<p>10) Library Committee :</p> <p>a. Prin. Dr.(Mrs.) M.K.Pejaver</p> <p>b. Vice-Prin. (Mrs.) M.P.Akolkar (Coordinator)</p> <p>c. Vice-Prin. Mr. R.T.Kulkarni</p> <p>d. Ms. K.K.Kardekar (Secretary)</p> <p>e. Mrs. C.P.Shikarkhane</p> <p>f. Dr. M.N.Nyayate</p> <p>g. Dr. R.P.Athalye</p> <p>h. Dr. M.J.Kolet</p> <p>i. Dr. M.V.Rathnam</p> <p>j. Mrs. S.R.Pawale</p>
<p>11) Gymkhana Committee :</p> <p>a. Mr. P.G.Bamane (Coordinator)</p> <p>b. Dr. (Mrs.) M.Saha</p> <p>c. Dr. A.N.Bedekar</p> <p>d. Mr. S.D.Rathod</p> <p>e. Mr. B.K.Mandlekar</p> <p>f. Mrs. L.K.Mali</p> <p>g. Mr. S.M.Kamble</p> <p>h. Mrs. K.R.Khabhari</p> <p>i. Mr. R.V.Lele</p> <p>j. Mr. B.R.Ghuge</p> <p>k. Mr. S.B.Bhusara</p> <p>l. Mr. A.S.Paradhi</p> <p>m. Mrs. B.M.Patil</p>	<p>12) Magazine & Wallpaper :</p> <p>a. Mrs. U.P.Bal (Coordinator)</p> <p>b. Mrs. S.M.Phatak</p> <p>c. Mr. S.G.Bapat</p> <p>d. Dr.(Mrs.) M.Saha</p> <p>e. Mrs. M.T.Wankhede-Barsagade</p> <p>f. Dr.(Mrs.) P.N.Kurve</p> <p>g. Mrs. U.B.Gokhe</p> <p>h. Mr. S.K.Bhosale</p> <p>i. Dr. S.D.Joshi</p> <p>j. Mrs. P.Krishnan</p> <p>k. Mrs. R.Thomas</p>
<p>13) Dramatics :</p> <p>a. Mrs. S.M.Phatak (Coordinator)</p> <p>b. Mrs. K.D.Phal</p> <p>c. Mrs. U.B.Gokhe</p> <p>d. Dr. S.D.Joshi</p> <p>e. Mr. H.V.Naniwadekar</p> <p>f. Mr. S.B.Bhusara</p>	<p>14) Inagural function & Parents Meetings : (Management – Degree)</p> <p>a. Vice-Prin. (Mrs.) M.P.Akolkar</p> <p>b. Mrs. C.P.Shikarkhane</p> <p>c. Mr. V.M.Phegade</p> <p>d. Dr. V.M.Jamdhade</p> <p>e. Mr. A.A.Kale</p>

15) Inaugural function & Parents Meetings (Management-Junior) :

- a. Mr. M.A.C.Nair
(Coordinator)
- b. Mrs. F.Liuz
- c. Mrs. P.D.Jambhulkar
- d. Mr. A.S.Paradhi**

16) National Service Scheme (NSS) :

- a. Mr. D.R.Ambavadekar
(Programme Officer)
- b. Dr. A.N.Bedekar
- c. Mrs. S.S.Meshram
- d. Dr. K.M.Pariya
- e. Dr. V.M.Jamdhade
- f. Dr. (Mrs.)
A.S.Goswami-Giri
- g. Mr. S.K.Bhosale
- h. Mr. P.S.Mali
- i. Mrs. P.D.Jambhulkar
- j. Mr. B.R.Ghuge
- k. Mr. A.D.Athawale
- l. Mr. S.B.Bhusara
- m. Mr. B.S.Dhumale
- n. Mrs. L.K.Mali
- o. Ms. P.V.Javale
- p. Mr. S.M Kamble
- q. Mrs. S.D.Pimpre
- r. Mr. V.N.Thorat

17) N.S.S. Advisory Committee :

- a. Prin. Dr.(Mrs.) M.K.Pejaver
(Chairperson)
- b. Dr. U.R.Pandit (Member – College)
- c. Mr. N.D.Mandge (Member – College)
- d. Vice-Prin.(Mrs.)
M.P.Akolkar(Instead of repr. Of Development dept.)
- e. Mr. Punamchand Singavi
- f. Dr. Prabhrekar P. (District Coordinator-Univ.Repr.)
- g. Mr. S.Venkatraman
- h. Mr. D.R.Ambavadekar (Programme Officer)
- i. Student Member
- j. Student Member

18) Cultural Association :
(Dance, Music & Other events in Annual Social) :

- a. Mr. P.S.Mali
(Coordinator)

19) Magazine & Wallpaper :

- a. Mrs. U.P.Bal
(Coordinator)
- b. Mrs. S.M.Phatak
- c. Mr. S.G.Bapat
- d. Dr.(Mrs.) M.Saha

<p>b. Mr. S.D.Rathod c. Dr. (Mrs.) V.D.Manjramkar d. Mrs. S.S.Meshram e. Dr. (Mrs.) A.S.Goswami-Giri f. Mr. B.K.Mandlekar g. Mr. S.K.Bhosale h. Miss. S.B.Upadhye i. Mr. S.S.Bansode j. Dr. S.D.Joshi k. Mrs. P.Krishnan l. Mr. H.V.Naniwadekar m. Mrs. S.S.Dhakane n. Mrs. S.R.Pawale o. Mrs. P.D.Jambhulkar p. Mr. B.S.Dhumale q. Mrs. S.D. Pimpre r. Mrs. B.A.Deorukhkar</p>	<p>e. Mrs. M.T.Wankhede-Barsagade f. Dr.(Mrs.) P.N.Kurve g. Mrs. U.B.Gokhe h. Mr. S.K.Bhosale i. Dr. S.D.Joshi j. Mrs. P.Krishnan k. Mrs. R.Thomas</p> <p>20) Literary Association : a. Mrs. M.M.Ranade (Coordinator) b. Dr.(Mrs.) P.N.Kurve c. Mr. S.K.Bhosale d. Mr. S.M. Kamble e. Mrs. F.Luiz f. Mr. A.D.Athawale g. Mrs. S.D.Pimpre h. Mrs. B.A.Deorukhkar</p>
<p>21) Attendance Committee (Junior College) : a. Dr. (Mrs.) S.P.Bendigeri (Coordinator) b. Mrs. P.Krishnan c. Mrs. K.R.Karbhari d. Mr. R.V.Lele e. Mrs. R.Thomas f. Mrs. P.D.Jambhulkar g. Mr. S.B.Bhusara h. Mr. A.S.Paradhi i. Mrs. R.Thomas</p>	<p>22) Attendance Committee (Degree College) : a. Mr. V.S.Burkule (Coordinator) b. Mrs. S.M.Phatak c. Dr. U.R.Pandit d. Dr. K.M.Pariya e. Mrs. U.B.Gokhe f. Dr. V.M.Jamdhade g. Mr. S.K.Bhosale h. Miss. S.B.Upadhye</p>
<p>23) Students' council : a. Prin. Dr.(Mrs.) M.K.Pejaver b. Vice-Prin. (Mrs.) M.P.Akolkar c. Vice-Prin. Mr. R.T.Kulkarni d. Mr. D.R.Ambavadekar (NSS-Coordinator)</p>	<p>24) B.C.Cell : a. Dr.(Mrs.) M.K.Pejaver (Chairperson) b. Vice-Prin.(Ms.)M.P.Akolkar (Coordinator) c. Mr. V.D.Golatkhar</p>

<p>e. Mr. P.G.Bamane (Gymkhana-Coordinator)</p> <p>f. Dr. M.J.Kolet(NCC Boys-Coordinator)</p> <p>g. Mrs. U.B.Bal (Magazine-Coordinator)</p> <p>h. Mr. P.S.Mali (Cultural - Coordinator)</p> <p>i. Dr. V.D.Manjramkar(NCC Girls-Coordinator)</p> <p>j. General Secretary</p> <p>k. Secretary (Cultural)</p> <p>l. Secretary (Magazine)</p> <p>m. Secretary (Gymkhana)</p> <p>n. NCC Boys</p> <p>o. NCC Girls</p> <p>p. Highest in FYJC</p> <p>q. Highest in SYJC</p> <p>r. Highest in FYBSC</p> <p>s. Highest in SYBSC</p> <p>t. Highest in TYBSC</p> <p>u. L R from SC/ST</p> <p>v. L R from SC/ST</p>	<p>d. Mr. P.G.Bamane</p> <p>e. Mrs. M.T.Wankhede-Barsagade</p> <p>f. Mr. B.B.Jadhav</p> <p>25) N.C.C. Boys Unit :</p> <p>a. Dr. M.J.Kolet</p> <p>26) N.C.C. Girls Unit:</p> <p>a. Dr. (Mrs.) V.D.Manjramkar</p> <p>27) Trekking / Hiking Committee :</p> <p>a. Mrs. K.R.Karbhari (Coordinator)</p> <p>b. Mr. P.S.Mali</p> <p>c. Dr. M.J.Kolet</p> <p>d. Dr. (Mrs.) V.D.Manjramkar</p> <p>e. Mr. S.B.Bhusara</p>
<p>28) Examination Committee (Degree College) :</p> <p>a. Mr. V.D.Golatkhar (Coordinator)</p> <p>b. Dr.(Mrs.) N.N.Patil</p> <p>c. Dr. U.R.Pandit</p>	<p>29) Result Committee (Junior College) :</p> <p>a. Vice-Prin.Mr. R.T.Kulkarni (Coordinator)</p> <p>b. Mr. S.D.Attarde</p> <p>c. Dr.(Mrs.) S.P.Bendigeri</p> <p>d. Dr.(Mrs.) M.U.Borkar</p>
<p>30) Zoology Club :Nature Club :</p> <p>a. Dr.(Mrs.) P.N.Kurve (Coordinator)</p> <p>b. Dr. K.M.Pariya</p> <p>c. Mr. H.V.Naniwadekar</p>	<p>31) Botany Club : Shristi :</p> <p>a. Dr. (Mrs.) M.S.Mulgaonkar (Coordinator)</p> <p>b. Dr. (Mrs.) M.Saha</p> <p>c. Dr. V.M.Jamdhade</p> <p>d. Dr. (Mrs.) M. U. Borkar</p>
<p>32) Physics Club :</p> <p>a. Mr. P.K.Bhat (Coordinator)</p> <p>b. Mr. N.D.Mandge</p>	<p>33) Statistics Club :</p> <p>a. Mr. A.P.Patil (Coordinator)</p> <p>b. Mrs. M.J.Gholba</p> <p>c. Mrs. S.M.Phatak</p>

<p>34) Mathematics Club : a. Mrs. M.T.Wankhede- Barsagade (Coordinator) b. Mr. H.B.Katkar c. Miss. S.B.Upadhye</p>	<p>35) Chemistry Club : a. Mr. V.M.Phegade (Coordinator) b. Dr. M.V.Rathnam c. Dr.(Mrs.) A.S.Goswami-Giri d. Miss. S.B.Bansode</p>
<p>36) IT Club : a. Mr. A.A.Kale (Coordinator) b. Miss. M.K.Borse</p>	<p>37) Alumni Association of Bandodkar : a. Mr. S.G.Bapat (Coordinator) b. Mr. S.Venkatraman c. Dr. M.J.Kolet d) Dr.(Mrs.) P.N.Kurve</p>
<p>38) MH-CET Examination : a. Mrs. P.Krishnan (Coordinator) b. Mr. M.A.C.Nair c. Mrs. S.S.Dhakane</p>	<p>39) Olympiads (Junior) : a. Mr. H.V.Naniwadekar (Coordinator) b. Mr. H.B.Katkar c. Mrs. V.Sudha d. Mr. R.V.Lele</p>
<p>40) Examination Committee (Junior College) : a. Dr. (Mrs.) M.U.Borkar (Coordinator) b. Dr. S.D.Joshi</p>	<p>41) Employment Cell : a. Mrs. S.S.Meshram (Coordinator) b. Dr. V.D.Manjramkar c. Dr. V.M.Jamdhade d. Miss. M.K.Borse e. Mrs. L.K.Mali f. Ms. S.G.Thakur g. Miss. M.K.Borse</p>
<p>42) College Managing Committee (Degree College) : a. Mr. S.V.Karandikar b. Dr. V.V.Bedekar c. Mr. U.B.Joshi d. Mr. M.Y.Gokhale e. Mrs. M.P.Akolkar (Vice-Principal) f. Prin.Dr.(Mrs.) M.K.Pejaver (Secretary)</p>	<p>43) College Managing Committee (Junior College) : a. Mr. S.V.Karandikar b. Dr. V.V.Bedekar c. Mr. U.B.Joshi d. Mr. M.Y.Gokhale e. Mrs. M.P.Akolkar (Vice-Principal) f. Mr. R.T.Kulkarni (Vice-Principal) g. Prin.Dr.(Mrs.) M.K.Pejaver (Secretary)</p>

44) Yoga Committee :

- a. Dr. R.P.Athalye
(Coordinator)
- b. Mrs. K.R.Karbhari
- c. Mr. P.S.Mali
- d. Mrs. D.D.Ladhe
- e. Mr. V.N.Thorat
- f) Ms. B.M.Patil

45) NET-WEB Cell :

- a. K.K.Kardekar
(Coordinator)
- b. Mrs. U.B.Gokhe
- c. Mr. S.K.Bhosale
- d. Miss. S.B.Upadhye

46) Sahitya Sahavas :

- a. Mr. S.K.Bhosale
(Coordinator)
- b. Mr. B.K.Mandlekar
- c. Mrs. U.P.Bal
- d. Mrs. F.Luiz
- e. Mr. A.D.Athawale
- f. Mr. S.B.Bhusara
- g. Mr. B.S.Dhuamle

**47) College School
Complex & Science Square
:**

- a. Dr. (Mrs.) N.N.Patil
(Coordinator)
- b. Dr. (Mrs.) M.U.Borkar (Assistant
Coordinator)
- c. Dr. (Mrs.) M.S.Mulgaonkar
- d. Dr. R.P.Athalye
- e. Mr. D.R.Chaudhari
- f. Mr. P.G.Bamane
- g. Dr. (Mrs.) V.D.Manjramkar
- h. Dr. (Mrs.) P.N.Kurve
- i. Dr. (Mrs.) A.S.Goswami-Giri
- j. Mrs. P.Krishnan
- k. Mr. H.V.Naniwadekar

48) Admission Committee :

- a) Mr. V.S.Burkule
- b) Mrs. M.P. Akolkar (Vice Principal)
- c) Dr. Mrs. M.S. Mulgaonkar
- d) Mrs. M.M. Ranade
- e) Dr. Mrs. N.N. Patil
- f) Dr. M.N. Nyayate
- g) Mr. A.P. Patil
- h) Mrs. M.J. Gholba
- i) Mrs. S.M. Phatak
- j) Mr. S. Venkatraman
- k) Dr. M.J. Kolet
- l) Dr. Mrs. V.D. Manjramkar
- m) Mrs. M.T. Wankhede
- n) Dr. Mrs. P.N. Kurve
- o) Mrs. U.B. Gokhe

Annexure No.16

Income expenditure 2007-08

B.N. Bandodkar College Of Science (Senior)
187- Chendani bunder road, Thane College Campus Thane (w) - 400 601
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD 1st APR 07 TO 31st MARCH 2008

EXPENDITURE	Amt. Rs.	INCOME	Amt. Rs.
DEPRECIATION		INTEREST	
Depreciation on Furniture & Computers	1,202,735.65	Interest on Saving Account	108,619.00
EXPENDITURE ON OBJECT OF TRUST		GRANTS	
Educational	35,468,917.00	Salary Grant	29,485,718.00
		INCOME FROM OTHER SOURCES	
		Fees From Students	1,699,778.00
		Sundries	599,923.10
		INCOME & EXPENDITURE A/C	4,777,614.55
	36,671,652.65		36,671,652.65

M. Jeyam
Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane

Verified & Found Correct

Chartered Accountant

S. V. KALE
CHARTERED ACCOUNTANT
"Santhya", Plot No. 3, 1st Fl.,
Nasipale, Highway Society,
Swami Jeevanand Marg,
New Colony, THANE-400 602.



B.N. Bandodkar College Of Science (Unaided)
187- Chendani bunder road, Thane College Campus Thane (w) - 400 601
INCOME & EXPENDITURE ACCOUNT FOR THE PERIOD 1st APR 07 TO 31st MARCH 2008

EXPENDITURE	Amt. Rs.	INCOME	Amt. Rs.
DEPRECIATION		INTEREST	
Depreciation on Movable Properties	467,502.64	Interest on Saving Account	109,416.30
EXPENDITURE ON OBJECT OF TRUST		GRANTS	
Educational	2,547,32.00	Fees From Students	7,211,413.00
		Sundries	247,860.00
INCOME & EXPENDITURE A/C	5,854,075.76		
	7,868,709.89		7,868,709.89

M. Jeyam
Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane

Verified & Found Correct

Chartered Accountant

S. V. KALE
CHARTERED ACCOUNTANT
"Santhya", Plot No. 3, 1st Fl.,
Nasipale, Highway Society,
Swami Jeevanand Marg,
New Colony, THANE-400 602.



Annexure No.17

Income expenditure 2008-09

B.N. Bandodkar College Of Science (Senior)
187- Chednadi bunder road, Thane College Campus Thane (w) - 400 601
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD 1st APR 08 TO 31st MARCH 2009

EXPENDITURE	Amt. Rs.	INCOME	Amt. Rs.
DEPRECIATION		INTEREST	
Depreciaton on Furniture & Computers	1,131,284.57	Interest on Saving Account	102,074.00
EXPENDITURE ON OBJECT OF TRUST		GRANTS	
Religious	5,288.00	Salary Grant	31,526,204.00
Educational	38,645,442.00	INCOME FROM OTHER SOURCES	
		Fees From Students	2,331,390.00
		Sundries	677,894.54
		INCOME & EXPENDITURE A/C	5,144,452.03
	39,782,014.57		39,782,014.57

M. Jeyaraj
Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane



Verified & Found Correct
[Signature]
Chartered Accountant

B.N. Bandodkar College Of Science (Bsc-IT)
187- Chednadi bunder road, Thane College Campus Thane (w) - 400 601
INCOME & EXPENDITURE ACCOUNT FOR THE PERIOD 1st APR 08 TO 31st MARCH 2009

EXPENDITURE	Amt. Rs.	INCOME	Amt. Rs.
DEPRECIATION		INTEREST	
Depreciaton on Movable Properties	608,021.37	Interest on Saving Account	115,096.00
EXPENDITURE ON OBJECT OF TRUST		GRANTS	
Religious	13,960.00	Fees From Students	11,318,534.00
Educational	9,667,581.00	Sundries	698,371.00
INCOME & EXPENDITURE A/C	1,842,438.63		
	12,132,001.00		12,132,001.00

M. Jeyaraj
Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane

Verified & Found Correct
[Signature]
Chartered Accountant



Annexure No.18

Audited statement of accounts for the year 2007-08

B.N. Bandodkar College Of Science (Senior)
187- Chendani bunder road, Thane College Campus Thane (w) - 400 601
BALANCE SHEET AS AT 31ST MARCH 2008

LIABILITIES	Amt. Rs.	ASSETS	Amt. Rs.
Reserve Fund	201,700.00	Furniture & fixture	9,210,125.08
	25,193,137.75	Computer & Machinery	622,592.33
University Fee Refundable	20,670.00	Advance Recoverable	124,138.00
Capital Grant from UGC/University	2,059,264.87	Deposits	66,845.00
College Exam Fee Account	463,564.44	Loan/ Advance Intercollege	200,250.00
Advance Refundable	21,500.00	Advances	72,463.00
		Capital Grant from UGC/University Recoverable	49.00
Government Scholarships Freeships		Government Scholarships Freeships Recoverable	156,970.00
	711,934.00	Cash at Bank	2,708,511.52
Miscellaneous Deposits	18,098.00	Cash in Hand	287,378.13
Deposits from Students	1,101,750.00	<u>Income & Expenditure Account</u>	
Univ. Bills Payable To Asst. / Servents	72,415.00	Opening Balance	16,458,714.02
Student Welfare Fund /Account (Schedule "K")	44,002.02		
	29,908,036.08		29,908,036.08


Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane

Verified & Found Correct



Chartered Accountant

S. V. KALE

CHARTERED ACCOUNTANT
"Sadhya", Plot No. 3, 1st Flr,
Naupada, High Way Society,
Swami Vivekanand Marg,
Naupada, THANE-400 602.



B.N. Bhandodkar College Of Science (Unaided)
187- Chendani bunder road, Thane College Campus Thane (w) - 400 601
BALANCE SHEET AS AT 31ST MARCH 2008

LIABILITIES	Amt. Rs.	ASSETS	Amt. Rs.
Reserve Fund	11,100.00	Furniture & fixture	2,842,894.62
Deposits from Students	323,300.00	Computer & Machinery	1,368,227.55
Univ. Bills Payable To Asst. / Servents	6,321.00	Advances	9,792,241.00
Advance Recoverable	1,000.00	University Fee Recoverable	16,155.00
University Fee Refundable	2,520.00	Cash at Bank	1,338,842.80
		Cash in Hand	37,730.00
<u>Income & Expenditure Account</u>			
Opening Balance	9,997,774.21		
Add : Surplus during the year	5,054,075.76		
	15,396,090.97		15,396,090.97

Milijaner
Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane

Verified & Found Correct

Chartered Accountant

S. V. KALE
CHARTERED ACCOUNTANT
"Sandhya", Plot No. 3, 1st Fl.,
Nrupadi, Poddary Society,
Swami Vivekananda Marg,
Nagpur. Tel: 400 502.

Annexure No.19

Audited statement of accounts for the year 2008-09

B.N. Bandodkar College Of Science (Senior)
187- Chednadi bunder road, Thane College Campus Thane (w) - 400 601
BALANCE SHEET AS AT 31ST MARCH 2009

LIABILITIES	Amt. Rs.	ASSETS	Amt. Rs.
Reserve Fund (Schedule "A")	398,350.00	Furniture & fixture (Schedule "L")	8,879,274.97
Loans: (Schedule "B")	29,231,867.75	Computer & Machinery (Schedule "M")	498,073.87
University Fee Refundable (Schedule "C")	65,120.00	Advance Recoverable (Schedule "N")	8,800.00
Capital Grant from UGC/University : (Schedule "D")	3,031,342.87	Deposits (Schedule "O")	92,415.00
College Exam Fee Account : (Schedule "E")	542,724.44	University Fee Receivable (Schedule "P")	151,313.00
Advance Refundable (Schedule "F")	19,500.00	Advances (Schedule "Q")	142,804.00
		Capital Grant from UGC/University Recoverable: (Schedule "R")	49.00
		Government Scholarships Freeships Recoverable: (Schedule "S")	223,455.00
Government Scholarships Freeships : (Schedule "G")	437,086.00	Cash at Bank (Schedule "T")	3,185,394.52
Miscellaneous Deposits : (Schedule "H")	129,370.00	Cash in Hand (Schedule "U")	53,786.67
Deposits from Students : (Schedule "I")	827,700.00	Income & Expenditure Account	
Univ. Bills Payable To Asst. / Servents (Schedule "J")	113,469.00	Opening Balance	16,458,714.02
Student Welfare Fund Account (Schedule "K")	42,002.02	Add: Deficit during the year	5,144,452.03
		Less: Surplus during the year	
	34,838,532.08		34,838,532.08

Signature

Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane



Verified & Found Correct

Signature
Chartered Accountant

B. N. Bandodkar College of Science, Thane

B.N. Bandodkar College Of Science (Bsc-IT)
187- Chednadi bunder road, Thane College Campus Thane (w) - 400 601
BALANCE SHEET AS AT 31ST MARCH 2009

LIABILITIES	Amt. Rs.	ASSETS	Amt. Rs.
Reserve Fund (Schedule "A")	18,100.00	Furniture & fixture (Schedule "F")	3,215,692.91
Deposits from Students : (Schedule "B")	352,550.00	Computer & Machinery (Schedule "G")	2,104,781.89
Univ. Bills Payable To Asst. / Servents (Schedule "C")	6,321.00	Advances (Schedule "H")	11,375,321.00
Advance Recoverable (Schedule "D")	1,000.00	University Fee Recoverable (Schedule "I")	22,155.00
University Fee Refundable (Schedule "E")	13,050.00	Cash at Bank (Schedule "J")	547,248.80
		Cash in Hand (Schedule "K")	20,110.00
<u>Income & Expenditure Account</u>			
Opening Balance	15,051,849.97		
Add : Surplus during the year	1,842,438.63		
	17,285,309.60		17,285,309.60


Principal
B.N. BANDODKAR COLLEGE OF SCIENCE
Thane



Verified & Found Correct



Chartered Accountant

Annexure No.20
Vidya Prasarak Mandal, Thane.

Oath



VIDYA PRASARAK MANDAL, THANE.

OATH

I am proud to be a part of Vidya Prasarak Mandal, which has a glorious tradition of imparting quality education.

In all acts of my student life, I will assume responsibility towards society. I will give to my teachers the due respect and gratitude. I pledge myself to respect and observe all ethical codes of conduct. I shall abstain from indulging in malpractices of any sort including ragging. I will safeguard the interests of the institution and will strive to apply my skills only with utmost respect for the well being of the institution and humanity. I will speak out against evil and unjust practices wherever I encounter it. I pledge to lead my student life with dignity and honor.