

AQAR: 2008-2009



BHARATIYA VIDYA BHAVAN'S BHAVAN'S COLLEGE

- M.M.COLLEGE OF ARTS □ N.M.INSTITUTE OF SCIENCE
- H.R.J.COLLEGE OF COMMERCE

ESTABLISHED - 1946 - ACCREDITED B++ BY NAAC (2004-2009)

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Annual Quality Assurance Report (AQAR) 2008 - 2009

BHAVAN'S COLLEGE

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MUNSHI NAGAR, ANDHERI (W), MUMBAI 400 058

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SECTION A:

Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement

- ❖ To explore the possibility of starting new academic programmes.
- ❖ To encourage staff members to use innovative teaching methods to enhance the quality of learning process.
- ❖ To encourage examination and syllabus reforms.
- ❖ To encourage staff members to undertake research activities.

SECTION B:

Details in respect of the following

Activities reflecting the goals and objectives of the institution

- ❖ ‘Amrutam Tu Vidya’, Knowledge is nectar” is the motto of Bharatiya Vidya Bhavan. From the beginning of civilization people began to appreciate the importance of knowledge. Human civilization accumulated knowledge of past generations from times immemorial. From informal teaching and learning, humanity progressed to more formal and institutionalized ways of teaching and learning. Knowledge has no value if it does not generate wisdom. It is the wisdom that is the real nectar, the amrut. If we realize the dream of Mahatma Gandhi and Pope John Paul II for primacy of human freedom and dignity, then this would be true Vidya and true Amrut. Amrutam Vidya.
- ❖ To keep in line with the mission and objectives of the institute, the teachers work towards keeping themselves informed with the latest trends in their subjects by participating in seminars and workshops.
- ❖ Munshiji believed in overall development of a student. In order to tap the latent potential of students the institute encourages and provided opportunities for the participation in maximum curricular, co-curricular and extracurricular activities.
- ❖ Since each individual student needs to think independently, the College encourages students participation in research work under the guidance of teachers which is evident from the projects, papers and power point presentations undertaken by them. Research work is carried out by the teachers also through pursuit of major and minor projects and publications as well as through M. Phil and Ph.D. programmes to further empower themselves.



New academic programmes initiated (UG and PG)

- ❖ A Sandwich course on 'Food Safety' was initiated by Bhavan's Research Centre in collaboration with Quality Control of India (QCI), Delhi which was designed to provide knowledge of latest developments in food safety and quality management systems to students to equip them to excel in their career in the Food Processing Industry.

Innovations in curricular design and transaction

Members of the Teaching Staff hold numerous responsible positions on University Committees, which enable them to contribute to important decisions in the teaching learning process.

- ❖ Dr. Maya Chemburkar was appointed as Chairperson of Board of studies in Herbal Sciences for the year 2008-09.
- ❖ Prof. Dhwanita Rao was a member of organizing committee of one-day workshop for teachers in new syllabus of F.Y.B.Sc. Mathematics held on June 27, 2008 by the Dept. of Mathematics, University of Mumbai and Board of Studies in Mathematics.
- ❖ Prof. Dhwanita Rao was appointed as a member of syllabus committee for S.Y.B.Sc. Mathematics.
- ❖ Prof. R. C. Patil was member of syllabus Committee member for B.Sc. III Microbiology at Solapur University.
- ❖ Prof. P.G. Patki has been nominated as a member of Faculty of Arts, Science and Commerce of University of Mumbai from Board of Studies under the section 33(5)[C] of Maharashtra University Act, 1994.
- ❖ Prof. (Smt) S.S. Naralkar participated as a member of organizing committee in one day workshop on 'Revision of Syllabus for S.Y.B.Sc. and T.Y.B.Sc., Statistics' organized by Kirti College, Dadar on 14th July, 2008.

The members of the Teaching Staff use various innovative teaching methods to simplify the learning process and make it more interactive and interesting:

- ❖ Research related projects were assigned to students of T.Y.B.Sc. and M.Sc. to introduce them to research work in Vocational Biotechnology Botany and Microbiology.
- ❖ Frequent use of OHP, charts and PowerPoint presentations enhanced the interest of students.



- ❖ Students were given question banks and guidelines to prepare for the exams. They were encouraged to write notes during lectures. Students were given information and guidance about effective study habits and preparation for examination.

Study tours and Films

- ❖ Prof. Madhav took the students of FYBA and TYBA for a visit to Bombay Civil Court at Dindoshi on 13 September.
- ❖ Prof. Roshan Varma took the students of SYBA to Mani Bhavan at Grant Road on 16th September, to bring them closer to the concept of Gandhism.
- ❖ The Department of Psychology organized an educational visit to the Dilkhush, School for special children, Juhu.
- ❖ A screening of the National Geographic documentary, "In the Womb" was held on 9th September 2008 by the Department of Psychology followed by the educational visit to the Regional Mental Hospital, Pune on 19th January 2009.

Inter-disciplinary programmes started : NIL

Examination reforms implemented

- ❖ The revised syllabi as per the guidelines by the University were implemented in various subjects.
- ❖ The examinations were conducted according to the pattern prescribed by the University

Candidates qualified: NET/SLET/GATE etc. : NIL

Initiative towards faculty development programme

- ❖ Deputed a staff delegate to visit U.K., Germany and France to explore the possibility of collaboration of M.S. Program.

Teachers Participation in Orientation/Refresher Courses

- ❖ Prof Kranti C. Gawali also successfully completed Refresher Course securing "A" Grade.
- ❖ Mr. Ramesh G. Paloti, the Librarian, completed his orientation from Mumbai University.
- ❖ Prof. Sharad Tajane completed refresher course in Chemistry with grade 'A' certificate at H.P. University, Shimla from 24th Nov to 13th Dec 2008.

Paper presentation/ Workshop Participation/lectures delivered by staff member:



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- ❖ Dr. Singare presented a research paper in DAE-BRNS Symposium on Nuclear Chemistry and Radiochemistry held at Mithibai College, Vile Parle from 7th to 10th January 2009.
- ❖ Prof. Geeta Mohandas presented a paper in a one day workshop on the “Uses of quantitative Techniques in Business Economics” held at Raheja College on 2nd August 2008.
- ❖ Prof. Rekha Sharma. presented a lecture for students of T.Y.B.A. on paper no. 6 in ‘Babasaheb Nene Arts, Science and Commerce College’ on 3rd March 2009.
- ❖ Prof. Rekha Sharma presented a paper on the subject “Post independence Indian Literature” in the workshop organized by K.G. Joshi College of Arts and N.G. Bedekar College of Commerce, Thane on 20th November 2008.
- ❖ Ms. Gayathri N. presented a paper in the International Conference organized by the 8th Asian Fisheries Forum held in Cochin, Kerala.
- ❖ Prof. Ashok Patange participated in a one day workshop for F.Y.B.Sc. revised syllabus in the subject of Physical Chemistry held at Kirti College, Dadar on 1st July 2008.
- ❖ Prof. Ashok Patange participated in a 1-day workshop for F.Y.B.Sc. revised syllabus in Inorganic Chemistry held at Patkar College, on 30th August 2008.
- ❖ Dr. (Mrs.) P. D. Anthappan has along with Dr. (Mrs.) S. Shrivastava, Dr. (Mrs.) S. L. Samant and Dr. (Ms.) Z. P. Bhathena participated in a two day “Workshop on Idea Generation in Aquaculture Biotechnology” organized by CIFE & sponsored by DBT at CIFE, Versova on 28th & 29th August 2008.
- ❖ Dr. (Mrs.) S. Shrivastava, along with Ms. Shilpali Redkar, participated in a “Workshop on the Revised Syllabus of F.Y.B.Sc. Microbiology” organized by Board of studies & Mithibai College on 24th July 2008.
- ❖ Dr. (Mrs.) S. Shrivastava, along with Ms. Shilpali Redkar, participated in a “Workshop on the Revised Syllabus of F.Y.B.Sc. Microbiology” organized by Board of studies & Mithibai College on 24th July 2008.
- ❖ Dr. (Mrs.) Rao A.J. and Dr. Gore participated in a seminar, “Fungal Enzymes and its applications” organized by the Dept. of Microbiology, Bhavan’s College on 27th and 28th November, 2008.
- ❖ Dr. (Mrs.) Rao participated in a workshop on Tissue-culture, organized by KET’s Vaze College, Mulund (E), from 2nd to 6th February, 2009.
- ❖ Ms. Gayathri N also participated in the workshop for the F.Y.B.Sc. revised practical Paper I syllabus organized by the Department of Biotechnology, Khalsa College, Mumbai.
- ❖ Ms. Veena Bhutada completed a 2-day national workshop on Fungal Enzyme & their application conducted by Microbiology Department, Bhavan’s College.
- ❖ Ms. Deepali Kolhatkar, Ms. Veena Bhutada, Ms. Gayathri N. and Mr. Vijay Waghmare participated in the workshop for the F.Y.B.Sc. Revised syllabus organized by the Dept. of Biotechnology, Mithibai College, in coordination with University of Mumbai.
- ❖ Dr. Pravin Singare participated in a 1-day workshop for F.Y.B.Sc. revised syllabus in the subject of Physical Chemistry held at Kirti College, Dadar on 1st July 2008.

Seminars/ lectures/ Conferences attended



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- ❖ Dr. Usha Parmeshwaran, Dr. Maya Chemburkar & Prof. Vinit Vaidya attended a 2-day workshop on Fungal Enzymes organized by Dept. of Microbiology Bhavan's College, held in November 2008. Dr. Usha Parmeshwaran, Dr. Maya Chemburkar were also on the advisory committee of this workshop
- ❖ Prof Neha sawant attended a seminar on caste and gender, organized by Woman Development Cell of the University
- ❖ Prof. Vishal Kamble attended a National Symposium on "New Vistas for Mycology in Meeting Global Challenges" at CAS in Botany University of Madras held on 29th & 30th Jan 2009 and presented a Research paper titled "Studies on Ectomycorrhizal Fungi in Sanjay Gandhi National Park (SGNP) Mumbai, Maharashtra"
- ❖ He also attended technical lecture on "Process Mass Spectrometry for Residual Gas Analysis in fields of Catalysis, Fuel cells, Coal Gasification, Fermentation" held at UDCT, Matunga on 4th December 2008.
- ❖ R.Y.Chavan attended a 2-day National Conference on "Fuzzy Logic and applications in Industry" held on 10th - 11th January 2009, at Karmaveer Bhaurao Patil College. The conference was organized jointly by Karmaveer Bhaurao Patil College, Vashi and Bombay Mathematical Colloquium and was sponsored by UGC (Delhi) and DST (Delhi).
- ❖ Prof. R.Y.Chavan attended a one day workshop on new syllabus in F.Y.B.Sc. Mathematics, held at the Department of Mathematics, University of Mumbai on 27th June 2008.
- ❖ Dr. (Mrs.) S. Shrivastava also attended a "Conference on Current and Innovative Approaches to Microbiological Food Safety Management" on October 21-22, 2008 at New Delhi, organized by International Life Sciences Institute-India & International Commission on Microbiological Specifications for Foods (ICMSF).
- ❖ Dr. S. L. Samant, along with Prof. S. V. Raut, attended the UGC sponsored seminar on 19th & 20th September 2008, on "Recent Advances in Biological Sciences" at K. C. College.
- ❖ Dr.S.L.Samant attended a 1-day workshop on "Biodiversity: Conservation & Management at NCL, organized by MAC- Pune on 23rd October 2008.
- ❖ Prof Kranti C.Gawali attended a one day Workshop on Human Rights Jointly Organized By MIHRE, Bhavan's College and University of Mumbai held on 26th June 2008.
- ❖ Dr. (Mrs.) Patel A. J. attended a one day seminar on revised syllabus for F.Y.B.Sc., at ICL College, Vashi on 22nd August, 2008.
- ❖ Dr. Mane attended a two-day National Seminar on 'Gender and Caste : Interface and Issues' organized by Woman Development Cell and Centre for Human Development, Department of Economics, University of Mumbai, on 2nd and 3rd January, 2009.
- ❖ Prof. Deepali Kolhatkar completed a training programme in 'Methods and Techniques of Animal Tissue Culture' at Deenath Mangeshkar Hospital. Pune.
- ❖ Ms.Veena Bhutada also attended the UGCsponsored National level seminar on Nanotechnology at Department of Microbiology, Royal College.
- ❖ Ms.Veena Bhutada along with Ms. Deepali Kolhatkar attended a 2-day workshop on Tools & Techniques in Molecular Biology, conducted under the aegis of Coenzoo, Department of Zoology, Bhavan's College.



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- ❖ Prof Shingare attended technical lecture on “Process Mass Spectrometry for Residual Gas Analysis in fields of Catalysis, Fuel cells, Coal Gasification, Fermentation” held at UDCT, Matunga on 4th December 2008.
- ❖ Prof. Rekha Sharma attended two day seminar on “Gender and Caste interface and Issues” organized by W.D.C. University of Mumbai on 2nd - 3rd Jan, 2009.

Staff as resource person

- ❖ Prof. Dhwanita Rao was invited to give orientation lectures in Training Programme for the students of Mumbai Region appearing for INMO 2009.
- ❖ Prof. Rao was convener in a 2-day National Conference on “Fuzzy Logic and its applications in Industry” held on 10th - 11th January 2009, at Karmaveer Bhaurao Patil College.
- ❖ Dr. (Mrs.) P. D. Anthappan was invited as a resource person to conduct the Panel Discussion, at the teachers “Workshop on Food Safety” on 6th June 2008 at SPJIMR.
- ❖ Dr. (Mrs.) P.D.Anthappan convened the teachers workshop on the revised syllabus transaction in Microbiology at the T.Y.B.Sc Applied Component subject entitled “Food Production & Processing”, which was organized by the Microbiology Dept. of Bhavan’s College & Board of Studies, Microbiology, University of Mumbai on 30th June 2008 at the Seminar Hall of SPCE .
- ❖ Dr. Zarine Bathena was invited as Resource person on 21st Oct. 2008 for the teachers’ Refresher Course at Khalsa College.
- ❖ Prof R. C. Patil was appointed as member of Editorial Board Advisory Committee of 3 international Journals
- ❖ Prof Prasad Patki was invited as a Resource Person in one-day Workshop on ‘Statistics with practical application in industry’ organized by ‘MATHS CLUB’ of Royal College, Mira Road (East). He delivered a guest lecture on ‘Theory of Games’.
- ❖ Dr. P. K. Pandya delivered several lectures at the “Course in Plant and Animal Taxonomy”, conducted by the Extra Mural Studies Dept. of Mumbai University.
- ❖ Dr. P. K. Pandya was invited as a guest Lecturer to deliver a talk at Centre for Extra Mural Studies, University of Mumbai to celebrate Bicentennial Anniversary of Charles Darwin, on 12th February, 2009 which was attended by the Vice-Chancellor, Dr. Vijay Khole and Pro-V.C. Dr. A. D. Sawant.

Total number of seminars/workshops conducted

- ❖ Prof. Kranti Gawali jointly convened a one day UGC sponsored state level seminar on “The Role of Reservation Policy in Uplifting the Underprivileged Sections of India”
- ❖ On the eve of Independence Day Bhavan’s Chamber of Commerce (BCC) organized an Exhibition of projects on “Brand Awareness” and a Poster Making competition, with the theme being “India as I see it”.
- ❖ ‘Mathminar’ organized a special lecture by Dr. Shubha Pandit, Vice Principal, SPCE College on ‘Applications of Mathematics’ for students of Mathematics on 28th August, 2008



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- ❖ Dr. (Mrs.) S. Shrivastava convened and organized “Workshop on Food Safety” for teachers in collaboration with Quality Council of India- 2nd to 6th June 2008 at Bhavan’s Research Centre, Bhavan’s College.
- ❖ Under the aegis of BAM (Bhavan’s Association of Microbiologists), Dr. (Mrs.) S. Shrivastava organized a career counseling session on 15th and 18th Oct, 2008, for Microbiology students of Bhavan’s College, with external & internal faculty covering topics such as: Career opportunities in Life Sciences, Food industry, Nutrition & Dietetics, Clinical Research and Bioinformatics. 2008.
- ❖ Dr. Zarine Bathena was the convenor for the workshop “Use of Analytical Instruments” for research scholars held in collaboration with Thermofisher Scientific on 19th and 20th
- ❖ A Practical workshop was conducted by our Librarian Mr. Ramesh Paloti for the students of TYBA History (Library Science)
- ❖ Prof. Anthony Kunnath organized a workshop on Human Rights for Foundation Course Paper II at St. Pius College, Goregaon along with University of Mumbai, Dept of Civics and Politics, Dec. 2008.
- ❖ Dr. S. L. Samant convened a two day national workshop on “Fungal enzymes & their applications” on 28th Nov & 11th Jan. 2009.
- ❖ An awareness programme on conservation and management of coastal and marine biodiversity was organized by National Bureau of Fish Genetic Resources, Lucknow and Coenozoo, Bhavan's's College, on 24th February, 2009.
- ❖ Dr. Parvish Pandya conducted a 1-day field and indoor programme, for the Forest in-charges of Mumbai, Alibaug and Thane regions, at the Sanjay Gandhi National Park (SGNP), in October, 2008.
- ❖ Dr. Pandya was invited to deliver presentations and/or conduct Forest Trails on Nature & Biodiversity Conservation, at PEAS (Programme for Environmental Awareness in Schools), at Patkar College, Goregaon, at S.I.E.S. College, Sion, Khalsa College, Matunga and for I.Y. College, Jogeshwari.
- ❖ He conducted six “Introductory Programmes on Birds” for general public at the SGNP, in Feb-March, 2009.
- ❖ Dr. P. K. Pandya also conducted a 6-day training programme for School teachers in SVP School, Kandivili, on “Teaching Biology for A Levels curriculum, Cambridge, U.K.”
- ❖ A 2-day workshop on “Tools & Techniques in Molecular Biology”, was conducted under the aegis of Coenozoo, Department of Zoology, Bhavan’s College.
- ❖ Under the aegis of the DFF (Dr. Dhala’s Felicitation Fund) Trust, the DFF Trustees & the Department of Microbiology organized the 16th Annual Research Inter-institutional Paper/Poster Competition at the Jubilee Hall of CIRCOT, Matunga on 28th June, 2008.

Research projects

- ❖ **Biodiversity of Aarey Milk Colony and Film City** (2007 – 2009): Zeeshan A. Mirza Bhavans College, Andheri (W), Mumbai, Rajesh V. Sanap Patkar College, Goregaon (W), Mumbai. A report to be submitted to Government of Maharashtra And The Forest Department of Maharashtra



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Patents generated, if any : Nil

New collaborative research programmes

- ❖ Various industry-academia strengthening activities impacting student learning and societal benefit were progressively pursued by the microbiology Department.

Research grants received from various agencies

Faculty	Agency	Amount
Dr. Anthappan Ms. Shilpali Redkar	UGC Minor	90,000/-
Dr. Anthappan	University of Mumbai	50,000/-
Dr. Zarine Bathena	University of Mumbai	50,000/-
Dr. Zarine Bathena	DBT	12.32 Lakhs

Details of research scholars

❖ **Teachers as research scholars:**

Following teachers are pursuing/completed Ph.D.:

- Ms. Shaila Mane obtained Ph.D. in Life Sciences, on research topic titled ‘Studies on the Bioactive Compounds of leaf extracts of *Bruguiera cylindrica*’.

❖ **Teachers as research guides:**

- Under the guidance of Dr. P.A. Johnson, one student has completed Ph.D. in Economics from BITS.
- Two students under the guidance of Dr. P.A. Johnson have completed M.Phil. in Commerce and Management from YCMOU Nashik.
- Under the guidance of Dr. Shingare 13 students completed M.Phil. degree in Chemistry from Allagappa and Madhurai Kamraj University.

Citation index of faculty members and impact factor

Publications:

- ❖ Dr. S.L.Samant published a paper entitled “Production of ethanol from spoilt banana (*Musa paradisiaca*) using immobilized cells” in Journal of Pure and Applied Microbiology.
- ❖ Dr. (Ms.) Z. P. Bhathena published a paper entitled ‘Use of Myxobacterial pigment as textile dye’ in Pollution Research.



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- ❖ Dr. (Ms.) Z. P. Bhathena paper 'Production & Application of Cryoprotectants betaineglycine from halophilic bacteria' has been accepted for publication .
- ❖ R. C. Patil contributed a chapter on 'Biological Warfare' in the book Bioterrorism and Biological warfare, Pointer Publishers, Jaipur.
- ❖ Prof. S. V. Raut published a paper entitled "Treatment of dairy effluent at lab scale by free and immobilised isolates and *Candida haemulonii* MTCC 1964" in Bioscience Research Bulletin and Journal of Pure & Applied Microbiology.
- ❖ Prof. S. V. Raut published a paper entitled "Study of *Azospirillum* spp. On the heavy metal tolerance, phytostimulation and bioprotection" in Bioscience Research Bulletin and Journal of Pure & Applied Microbiology.
- ❖ Prof. S. V. Raut published a paper entitled "Isolation and identification of antidandruff component from *Sapindus trifoliatus* [ritha] " in Bioscience Research Bulletin and Journal of Pure & Applied Microbiology.
- ❖ Asha J. Rao and Vijayalakshmi R. Nair (2008). Effects of salinity on the toxicity of copper and zinc to the fish *Therapon jarbua* (Forsskal). Nat. Env. And Poll. Tech.: Vol. 7 (2) : 303-306.
- ❖ Asha J. Rao, V.I. Katchi, K.Venkateshvaran, Ujwala Jadhav, R.C.Patil and Abhishek Utekar (2008). Effects of extracts of the sponge *Halichondria panicea* on Angiogenesis and Immunomodulation. Bull. Of Pure and Appl. Sci.: Vol. 27B (1)

Honors/Awards to the faculty: National and International

- ❖ 'Twameva Vidya' Award for the year 2007 for Excellence in the Field of Education was awarded to Prin.Dr.V.I.Katchi . She was also awarded with 'Indira Gandhi Priyadarshini Puraskar' by Mumbai Pradesh Mahila Congress Samiti.
- ❖ Prof. Ms. S. Redkar was awarded the Springer's Research Scholarship for her Ph.D. work on Microbial Siderophores under the guidance of Dr. (Mrs.) P. D. Anthappan for the year 2008-09.
- ❖ Prof. Neha Sawant won third prize in state level story writing competition organized by Shri Akshardham Prakashan.
- ❖ Dr. Pandya was interviewed on Vividh Bharti Radio, for two consecutive sessions entitled "Inse Miliye – Pakshi Mitra, Dr. Parvish Pandya" where he deliberated on birds and birdwatching as a fabulous hobby.
- ❖ Dr. Pravin Singare was listed in 2009 edition of **Marquis Who's Who in the World**

Internal resources generated : Nil

Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes : Nil

Community services



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- ❖ In order to introduce NSS volunteers to physical work, the College campus was cleaned with the help of non teaching staff and other students. The cleaning also comprised of weeding of transplantation area for the last year.
- ❖ On the occasion of Independence Day, the NSS volunteers presented cultural programmes depicting patriotic values including songs, dance and skits.
- ❖ A rally on the lines of Dandi March was organized from Andheri station to Bhavan's College.
- ❖ In association with the Mahatma Gandhi Seva Mandir Trust, Bandra and B.S.E.S Hospital, Andheri. blood donation camps were held in the campus after carrying out an awareness campaign through posters and street plays.
- ❖ During the 10 days Ganesh festival, about 60 volunteers were trained by police authorities for crowd management. 60 volunteers were posted at Versova and Seven Bungalows for the assistance of police, on the day of Ganesh Immersions.
- ❖ Free medical checkup camp was organized in the adopted area, Sai Nagar, Shakti Nagar Slum of Andheri west, where general medical practitioners examined the people for common health problems.
- ❖ As a part of "Red Ribbon Club" founded by NSS Unit of Bhavan's College, a cleanliness drive and AIDS awareness was also launched in these areas.
- ❖ As a part of republic day celebration, flags prepared by disabled children were put on sale by the Volunteers' fund collection drive for the aid of disabled children and the amount generated from the sale was handed over to "High Tech Foundation
- ❖ A special 8 day rural camp of the NSS unit was organized at Saphale village, Taluka Palghar, District Thane. 63 volunteers attended the camp. As per the requirement of the Gram Panchayat authorities, construction of toilets, cleaning up of a river and village cremation ground, leveling of school playground etc. were carried out. The volunteers also arranged awareness programmes in primary schools and in villages, targeting the problems of illiteracy, superstitions, alcoholism, school drop outs etc.

- ❖ NCC cadets were given training in Protecting Environment by cleaning Beaches after Ganpati Visharajan.
- ❖ To create sensitivity and unity to fight against terrorism a Peace Rally after the 26/11 attack was undertaken on 3rd Dec'08 around 250 cadets in and around the area took part in the rally to bring awareness and equality and brotherhood.
- ❖ A rally to bring about awareness on prevention of female feticide was also undertaken.

No of teachers recruited- Nil

About 20 teachers were appointed on Clock hour basis against existing vacancies.

Teaching – Non-teaching staff ratio

Teaching staff		Non-Teaching - Staff	
Male	Female	Male	Female



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47	41	116	17
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Ratio 1: 1.5

Improvements in the library services

- ❖ Library Reading Room can accommodate 250 students and is available for twelve to fourteen hours a day.
- ❖ Open access is provided to all faculty and staff members. Students are permitted entry to the stack room with the prior permission of the librarian or if accompanied by their teachers.
- ❖ The library is provided with internet facility for students and staff. The Library Volunteer Scheme is continued this academic Year.
- ❖ An annual book exhibition arranged in the College is one of the star events of the Library when students are exposed to a wide range of reading material from various publishing houses all under one roof.
- ❖ The Library offers a book bank facility for underprivileged, economically weaker students and differently abled students.
- ❖ The library services such as Acquisition, Cataloguing, Circulation, Serial controls, Stock Verification and OPAC are fully computerized with LIBSYS Software.
- ❖ Library has Internet connection with 2 Mbps Speed. Staff and students can access the internet during the working hours of the library. This Internet connection is in the form of leased line provided by Management. Print out and document scanning facility is available on request for staff members and students.
- ❖ E-Journals and E-Books are accessed under INFLIBNET's N-LIST Consortium.
- ❖ Barcode printer and Scanners are used to provide quick and instant service to readers.
- ❖ Additional Internet connection with 2 Mbps has been availed under Virtual Private Network (VPN) scheme of HRD Ministry.

New books/journals subscribed and their value

- ❖ Bhavan's College Library has added a valuable collection of 1066 books costing Rs.2,81,815/-.
- ❖ Around 35 technical journals and 30 magazines are being subscribed by the library.
- ❖ The Library has also purchased 98 books costing Rs.66, 187/- under UGC Schemes for Under Graduate level and Post Graduate level and Post Graduate level.

Courses in which student assessment of teachers is introduced and the action taken on Student/ stakeholders feedback

- ❖ The written suggestions regarding improvements in teaching-learning received from the students through the feedback forms were considered and necessary action was taken at the departmental level.



Unit cost of education: Rs. 23,935/-

Computerization of administration and the process of admissions and examination results, issue of certificates

- ❖ The College Office, especially administration and accounts, is fully computerized.
- ❖ Examination section is fully equipped with computerized system ; it provides detailed mark-sheets to students on the date which is communicated by College to students and parents in advance.

Increase in the infrastructural facilities

- ❖ The college was established in the year 1946 and most of the infrastructure needs to be renovated. Thus extensive repairs are carried out periodically. This year repairing work was carried out at chemistry laboratory, pipe line and main building.
- ❖ This year resources are also being made available for the construction of a new six storied building in the place of the single floor structure by the name of Palanji Sadan. Thus the College has spent a sizeable amount in relocating the canteen and computer laboratories situated in and adjacent the old building.

Technology up gradation

- ❖ In addition to the already existing computers, the library acquired one more desktop and server. Printers and Scanners have been purchased.

Computer and internet access and training to teachers, non-teaching staff and students

- ❖ The Computer Science Department of the College conducts short term training programs during the vacation. Many teacher, students and non teaching staff have taken advantage of this program.

Financial aid to students:

Financial aid to students is provided in the form of free ships and scholarships.

2008-09	Freeships		Scholarships	
	Number	Amount (Rs)	Number	Amount (Rs.)
Aided Section	467	1,24,503	281	10,53,664
Unaided Section	67	10,73,530	60	9,75,172

Activities and support from the Alumni Association



AQAR: 2008-2009

- ❖ Informal association has been formed in most of the departments with graduates and post graduates, who are working in the industry or in teaching field. Reference letters are given to alumni to help them to get jobs in the industry or admission to foreign universities. They help the teachers to know the needs of the industry.
- ❖ With the help of the Alumni consisting of Shri Augustine Moniz from TATA AIG ; Kum. Divya Pillai from United Health Group; Kum. Dimple Doshi Currently pursuing her studies in Actuarial Science from USA; Shri Kunal Sutar Hasan Research Group, the Department of Statistics organized discussion on 'Career Opportunities in Statistics'
- ❖ □ Many alumni of the College are now working in the media and entertainment Industry.
- ❖ One of them is working with Outlook magazine. Complimentary copies are made available whenever there is something interesting for the students.
- ❖ With the help of alumni working in R&D divisions of industries like Hindustan Unilever and Nicolas Piramal, students are sent for summer training sessions.

Activities and support from the Parent-Teacher Association:

- ❖ Parent – Teacher Association operates at the departmental level.
- ❖ Parents are usually called to discuss the issues of attendance, performance in the semester examinations and progress of their wards.
- ❖ Some departments have started the adoption scheme, where students are allotted in groups to each staff member. This facilitates better communication between the staff members and the students both for academic purpose and personal problems, if any.
- ❖ The College has started issuing “**Infomate**” to every student at the time of admission, an academic diary cum calendar which can also be used to convey information and messages to parents when required.

Health services:

- ❖ Sri Prakash Ayurvedic Center is situated on the Campus and the Kartar Singh Medical Center provides first aid in an emergency

Performance in sports activities

- ❖ Ms. Supriya Khanolkar S.Y.B.Sc. won **Bronze Medal** in Mumbai University intercollegiate tournament, held at Alibagh, for the third consecutive year. She bagged another trophy for the College, by winning the cricket match organized by Mumbai Cricket association (M.C.A.) held at Virar. She also proved winner at a box cricket at Ruia College.
- ❖ Along with **Ms. Harshala Shrivastava**, **Ms. Supriya Khanolkar** represented Mumbai team in the tournament organized by Women's Cricket Association of India (West Zone), at a Cricket Tournament held in Surat, where Mumbai Team won the trophy.
- ❖ Sagar Samel stood 4th in the Intercollegiate Judo Competition.
- ❖ Chaitanya Kamble of S.Y.B.Com. won gold medal in the body building competition and was selected for the Inter University Competition.



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- ❖ Swapna Parab of T.Y.BCom. was selected and won Gold Medal in for Inter University Yoga/Malkhamb competition.
- ❖ Kazan Uddin and Supriya Khamolkar won Bronze medal in Karate at the Inter-Collegiate Mumbai University level.

Incentives to outstanding sportspersons

- ❖ Students who represent the College in various sports are unable to attend classes regularly due the demands of their training schedule and competitions. The teachers provide them extra guidance in their studies whenever required.
- ❖ The College organizes training programmes with the help of the Gymkhana in-charge and its staff members for deserving sportspersons. It also distributes Kits and equipment if possible to students

Student achievements and awards

Academics:

- ❖ Refai Aemen stood first from amongst the students of Statistics who appeared at T.Y.B.Sc., University Examinations.
- ❖ Eruch Gorwalla, was the recipient of Dhunmai and Pestonji Polson PG Scholarship in Sept. 2008 for pursuing Ph.D.
- ❖ Juili Nimkar recieved University Research Studentship of Rs. 24,000/- .
- ❖ In recognition of the exemplary proficiency achieved in academic and/or co-curricular activities at the undergraduate, post-graduate and research level, Bhavan's Association of Microbiology felicitated the students of Microbiology Department.

Extracurricular:

- ❖ Sushmita C., Vikas M., Aditya P., Khyati A. and Sunil K. of TYBMM were awarded first place in the Frames Short Film Festival.
- ❖ Steffia and Mayuri G. (TYBMM) got first prize for Animation in Bhumika College Festival
- ❖ Sunil K. secured first place in Street Play in Mithibai College Festival.
- ❖ Sabiha G's (SYBMM) skill in 'Creative writing' was highly acknowledged when she bagged the first place for 'Creative Writing' in National College festival 'Cutting Chai', second place in Sophia College's Kaleidoscope and third place in N.M. College's Umang. **She has got an article published in the Times of India**, to her credit.
- ❖ Pranay Parab of SYBMM secured first place in 'Story board making' competition in 16:9 International Film Festival held in UPG College.
- ❖ Vipasha Arvind of SYBMM got first place in the fashion show group event held in Bhavan's College and SNDT College. She came second in the Fashion Show event in Sydnehem College.
- ❖ Gaurav Shah SYBMM danced to the first place when his group emerged winners of Group Dance event in St. Francis College, SNDT College and Rizvi College. In the Bhavan's College festival –O2, his group was placed second.



AQAR: 2008-2009

- ❖ Tejali Rane was winner of a beauty pageant conducted by Maharashtra Times.
- ❖ Mayur Patel came first in Antakshari Competition in Tolani College.
- ❖ Akanksha V. and Madhu J. of FYBMM and Ankita V. and Jay from SYBMM were a part of the RJ-ing team that gave live coverage of the campus events for the three days that the event was held.
- ❖ Harshala Shिवतarkar also won the quiz show called YUVA CHETANA on Sahyadri Channel.
- ❖ Vinod Kolte, S.Y. student won the following events: N.M. College Umang (1st in drama), S.N.D.T. (1st in dance and 1st in drama), Maharashtra Utsav, Elphiston College(1st in drama), Syndenham College,(1st in drama), Kshitij,Mithibai (1st in drama) and Patkar College (1st in drama).
- ❖ Priyanka Mehta, S.Y. student, won 1st prize for creative writing at Tolani College festival “Talenzzia”.
- ❖ Radhney Parsekar & Prajakta Mayekar won the 2nd Prize in ‘**BIOREMIX**’ at Khalsa College’s inter-collegiate fest “Galazio”.

Sports:

- ❖ Ms. Supriya Khanolkar S.Y.B.Sc. won **Bronze Medal** in Mumbai University intercollegiate tournament, held at Alibagh, for the third consecutive year. She bagged another trophy for the College, by winning the cricket match organized by Mumbai Cricket association (M.C.A.) held at Virar. She also proved winner at a box cricket at Ruia College.
- ❖ Along with Ms. Harshala Shिवतarkar, she represented Mumbai team in the tournament organized by Women’s Cricket Association of India (West Zone), at a Cricket Tournament held in Surat, where Mumbai Team won the trophy.

NCC:

- ❖ **SUO Neha Salvi of TYBA**, cadet of Bhavan’s Unit, 8 Mah., Girls Bn. NCC, Mumbai A group, Representing Maharashtra Directorate received 2 Gold medal and 1Silver medal at the **Republic day Parade at Delhi** for the cultural activity.
- ❖ **CPL Ujala Singh, L/CPL Pratibha Trivedi, CDT Hepsiba and CDT Pratibha Wagh** underwent Basic Leadership Camp (BLC) held at Sainik School, Bhubaneshwar – 23rd Oct.’08 t 3rd Nov’08 where they got the 1st prize for the cultural activity.
- ❖ **SGT. Ishita Painter** got Gold medal for Extempore at Annual Training Camp- was held at JNPT Uran 7th Jul’08 to 16th July’08
- ❖ **CPL Neha Salvi** got Gold Medal for best Dancing and Solo Singing at Annual Training Camp- was held at JNPT Uran 7th Jul’08 to 16th July’08.
- ❖ CSM Harpeet Kaur was awarded by Chief Minister Scholarship of Rs. 2000/-.
- ❖ **Lt. Malini Sharma** was awarded Best Associate NCC officer of Chancellor’s Brigade Trophy and has been trained as First Responder in Disaster Relief training programme Avhan’08 organized by Kavikulaguru Kalidas Sanskrit University, Nation Civil defense College Nagpur and NCC Maharashtra Directorate from 21st -31st Aug’08.

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- ❖ Maj Sriharsha took '10' cadets of Maharashtra along with SGT Kapil Jani to attend RCTC (rock climbing training camp)-Kerala, and Maharashtra directorate achieved 2nd place in the interstate competition.
- ❖ **Cpt Sudesh Rahatwal, L/Cpt Rakesh Sharma** attended NIC(National Integration Camp) at Madhya Pradesh in the month of Nov 2000 and took part in various competitions and achieved 3rd position for Maharashtra DTC(state)

Activities of the Guidance and Counseling unit

- ❖ An informal Guidance and Counseling cell is functional in the College taken care by Prof Kranti Gawali.
- ❖ In addition some of the departments have initiated the scheme of adoption of small groups of students to facilitate better interaction of staff with students. Formal and informal discussions are encouraged for guiding students both in curricular and extra-curricular activities. In one such event, '**Avenues in Biological Sciences**' were discussed along with a presentation by Dr. Parvish Pandya.
- ❖ Dr. S. Shrivastava organized a career counseling session for Microbiology students of Bhavan's College, with external & internal faculty covering topics such as: Career opportunities in Life Sciences, Food industry, Nutrition & Dietetics, Clinical Research and Bioinformatics. Dr. (Mrs.)

Placement services provided to students Nil

Development programmes for non-teaching staff

A cooperative credit society is run by the management for the last 23 years for the benefit of all Bhavans employees on a no profit no loss basis. Members of the non teaching staff take the maximum benefit of the society by availing loans and interest against fixed and recurring deposits.

Two Library Clerks have obtained BLISc.

Good practices of the institution

- ❖ The Kulpati Munshi Memorial InterCollegiate Competitions in Essay writing and Elocution have continued to be a success since its inception in the year 2000. The Topics for the Competition have relevance to contemporary national and global interests.
- ❖ The tradition of Vanmahotsav was also celebrated with enthusiasm this academic year. O2 Where life Begins our Cultural Festival was a roaring success this year too. The theme for the Fest was Junk Art: Inculcating the Spirit of Conservation.

Linkages developed with National/ International, academic/research bodies - Nil

Action Taken Report on the AQAR of the previous year



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Any other relevant information the institution wishes to add.

- ❖ The students of **TYBMM Journalism** class decided to share the responsibility of publishing the College magazine and this gave them first hand practical knowledge of theoretical work done in classroom.
- ❖ The Radio Event conducted by Students Council in the College gave a platform to students to experiment with Radio Jockeying.
- ❖ Akanksha V. and Madhu J. of FYBMM and Ankita V. and Jay from SYBMM were a part of the RJ-ing team that gave live coverage of the campus events for the three days that the event was held.
- ❖ Student council, under the leadership of Abhishek S. Awasthi General Secretary, support of council members and guidance of council teachers, established the motto, **“to maintain the unity of the College and work for the welfare of the student”**.
- ❖ **Zeeshan Mirza** of the Zoology department has to his credit following research papers published in various journals
 - Pal, S. & **Z.A. Mirza** (2009) Notes on the distribution and natural history of a rare and endemic Stout Sand Snake *Psammophis longiformis* Boulenger, 1896. *Cobra*, III (1): 7–10.
 - **Mirza, Z.A.** & S. Patil (2009) A survey report of the Reptiles & Amphibians of Powai Lake, Aarey Milk Colony and Film City, Mumbai, Maharashtra. *Cobra*, III (1): 11–20.
 - **Mirza, Z.A.** & J. Ahmed (2009) Note on the predation of *Calliophis melanurus* Shaw, 1802 (Serpents: Elapidae) by *Scolopendra sp. Hamadryad* 34.

SECTION C:

Outcomes achieved by the end of the year (attach separate sheet if required).

The Bhavan's Campus has a monthly publication named “Bhavan's Apna Parivar”, where events and achievements of the campus institutions are highlighted and reported. Staff and Students continue to contribute to this magazine.

- ❖ A sandwich Course on “Food Safety” was initiated by Bhavan's Research Centre in collaboration with Quality Control of India (QCI), New Delhi, which was designed to provide knowledge of latest development in food safety and quality management.
- ❖ Research related topics were assigned to T.Y.B.Sc. and M.Sc. students to introduce them to research. Frequent use of OHP and Power Point Presentation (PPT) was made available in the classroom teaching to enhance the interest of students. Students were given question banks and notes, special guidance lectures for effective study habits given to prepare them for the examinations.



AQAR: 2008-2009

- ❖ The College organized visit to Civil Court at Dindoshi for the F.Y.B.A. & T.Y.B.A.ich gave them idea of the actual court room proceedings, to enlighten the students on Gandhism, a visit to Mani Bhavan was organized, a study visit to Dilkhush School, which is a school for special children, they also visited the Regional Mental Hospitals, Pune, to study the behaviours of mentally challenged. All these methods enhanced the teaching learning process.
- ❖ The revised syllabi as per the Mumbai University were implemented in various subjects. A number of staff members attended Orientation Courses held for course revision. Examinations were held and reforms made as per guidelines from the University.
- ❖ Every year a number of staff members attend seminars/workshops for acquainting themselves of the latest research trends. This year 3 staff members attended Orientation Courses securing “A” Grade, 31 staff members attended seminars/workshops in their respective subjects, of members worked as Resource Persons. This year the total research grants also increased to about Rs.14 lacs, note worthy is the Grant received by DBT to Prof. Dr. Zarine Bhathena. 10 research were published in various members. 4 members received National and International recognition by getting honours and awards. Worth mentioning is Dr. Pravin Shingare, from the Department of Chemistry how has published more than 100 papers was listed in 2009 edition of Marquis who’s in the world.

Bhavan’s Research Centre (BRC): NABL accredited Laboratory

- ❖ In keeping with the core values set forth by NAAC, namely contributing to national development and fostering global competencies, promoting use of technology and quest for excellence, BRC, an extension of Department of Microbiology was established by the management in 2005, providing additional space and seed money to set up the laboratory and to purchase hi-tech scientific equipment. This innovative venture, partnered by the Department of Microbiology of the College and Centre for Entrepreneurship of SPJIMR continues its progress by focusing on research and consultancy services to the industry. The knowledge thus gained is applied to impact society with focus on areas like Environmental Microbiology, Food microbiology and Hygiene. It is no small achievement, within a couple of years of its inception, the BRC laboratory has been accredited by NABL.
- ❖ Students are joining MS in Biotechnology and MS in Food Technology at Ulster University, UK, with special Scholarship.



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SECTION D:

Plans of the HEI for the next year

- ❖ Encourage staff members to participate in decision making of academic activities at the University level, by holding strategic positions on Boards of Studies, Examinations related Committees etc. through various academic and co curricular activities.
- ❖ To encourage staff members to organize workshops and conferences for staff and students.
- ❖ To bring about improvements in the Library.
- ❖ Try to procure more research grants from UGC, Mumbai University and others.
- ❖ Develop Industrial Linkages through BRC

Sd/-

Dr. (Mrs.) Asha J. Rao

Name & Signature of the Director/Coordinator

Sd/-

Dr. (Mrs.) V.I.Katchi

Name & Signature of the IQAC Chairperson

