



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

# **The Annual Quality Assurance Report (AQAR) of the IQAC**

**Year : 2004 - 2005**

# **The Annual Quality Assurance Report (AQAR) Of the IQAC**

## **Part A :**

***What is the plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and what is the outcome by the end of the year?***

At the beginning of the academic year 2004-2005, we chalked out the plan in QAC and IQAC meetings towards quality enhancement.

- To get academic excellence in College and University Examinations.
- To set own programme to help the failures
- To encourage the students to do creative work and to appreciate such work.
- To arrange lectures or programmes for teachers on role of teachers or quality improvement of teachers.
- To arrange regular meetings of Heads of the Departments and club coordinators.
- To prepare yearly calendar and take it very seriously.
- To encourage staff and students to participate in seminars, workshops, conferences.
- To encourage staff and students to submit research papers.
- To circulate respective science journals in every department.

Based on this we have the following outcome achieved in the academic year.

- We conducted regular meeting of IQAC, QAC, Heads of the Departments and Club Coordinators throughout the year and planned many activities.
- We had our entire year calendar ready in the beginning of the year including examinations, club activities, sports, cultural programmes, HOD meetings, IQAC and QAC meetings, college committee meetings etc. We followed the calendar very strictly to the best possibility. (Copy of the calendar included in the report).
- We found that some students find Mathematics little difficult. Hence we introduced a terminal examination for Mathematics in addition to preliminary examination for the subject and found that students have responded very well.
- We have conducted ATKT Examinations earlier this year, which gave sufficient time to the students to study for ATKT and Term End Examinations. We had very few failures in ATKT Examination.
- Our students from F.Y.J.C. to T.Y.B.Sc. participated in many mini projects through Science Square Activity and submitted the Project Reports. The students also participated in National Seminar conducted in our college and presented the Posters. Our two research students participated in National Workshop and Seminar and presented papers.
- We had ordered additional Science Journals, which will be kept in respective departments.

Most of the programmes chalked out at the beginning of the year could be completed except a lecture or a programme, which was to be arranged for the teachers on role of teachers and quality improvements of teachers.

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## Part B:

### Q. 1 Activities reflecting the goals and objectives of the institution:

**Ans:** ➤ Our vision and mission statement is

**Vision** : Imparting quality education in science.

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

To achieve our mission our college has set up various committees and conducted various programmes through them. Following are some programmes conducted in our college in the academic year 2004 - 2005:

1. **National Conference** on Human Health and Nutrition: A Biotechnological Approach.
2. **Campus interviews** for placements of Apex Laboratories Ltd, CEAT Limited, L & T InfoTech Ltd., Innovsource Solutions Pvt. Ltd. etc for T.Y.B.Sc. Students.
3. Various **N.S.S.** and **N.C.C. Programmes** like Tree Plantation, Blood Donation Camp, and workshop by “Akshara” an NGO in Mumbai for development of women, Ganapati Immersion programme, and water conservation programmes along with other NGO Hariyali.
4. Through **Cultural** association “Aakanksha”, various cultural **activities**, workshop, contests like Personality Contest, Rangoli, Photography, fine arts etc. where eminent personalities from industry were invited as judges. Students were also sent for various Inter Collegiate Competitions.
5. **Club activities** of various departments in which eminent speakers, scientists were invited.
6. **College – School complex programme** where students of nearby schools were invited in our campus to help them in their environment education related activities. Similarly through **Science Square mini research projects** were done by our students.
7. **Ten days (24.05.2004 to 04 .06.2004.) N.C.C.** camp was conducted in our college.

8. **Yoga** Training programmes were conducted for students as well as teaching and non-teaching staff.
9. Many **excursions were arranged** for students. Through excursions students are able to study flora and fauna in their natural habitat. They also become familiar with different types of climates and ecosystems. Excursion develops among the students the feeling of togetherness, obedience, discipline, and ability to adjust and share and in general broaden their vision. It helps to develop healthy and intimate relation between the students and teacher. The students come to know about the diversity in our country and different life styles of countrymen, important movements and national heritage, which makes them proud of our nationality. At the same time they realize the problems faced by the countrymen.

Through all these activities the students gain self-confidence, develop personality, command over the language, stage confidence, boldness, social awareness etc.

**Q. 2 New academic programmes initiated (UG and PG):**

- Ans:**
- College is running B. Sc. (I.T.), a self-financing course since 2002-2003. In continuation of this course, college has started M. Sc. (I.T.) Part – I (Affiliated to Mumbai University).
  - College has also introduced one year Diploma Course in Mass Communication and Journalism of YCMOU.

**Add On courses**

- Certified courses in Horticulture, Biodiversity, and Industrial Chemistry were initiated in this academic year, but due to very poor response from the Students the courses had to be stopped and the seed money was returned back to UGC.

**Q. 3 Innovations in curricular design and transaction:**

- Ans:**
- Our college is affiliated to Mumbai University. Some of our teaching staff, being members of Board of Studies and faculty of sciences of Mumbai University contributed to update the courses as per today's requirements.
  - Similarly many of our teachers are members of syllabi committee who contributed in reframing the syllabus.

**Q. 4 Inter disciplinary programmes started:**

- Ans:**
- We have started consortium approach by starting College – School complex, where we invite nearby school children to college campus and help them in their environment education related activities. Teachers of all departments specifically from Zoology, Botany, Chemistry and Physics are contributing this activity. Details of this activity are given in relevant question.

**Q. 5 Examination reforms implemented:**

- Ans:**
- In order to sustain quality achieved in past few years in T.Y.B.Sc. (Mathematics) University examination, Department of Mathematics has introduced terminal examination in addition to the preliminary examination for T.Y.B.Sc. (Mathematics) students based on the syllabus taught in the first term.
- Mathematics subject is found to be tough by some students, hence for F.Y.B.Sc. and S.Y.B.Sc. Students, those who are weak in Mathematics, the bridge/remedial contact lectures/meetings were held to improve their performance in examination. 46 students of F.Y.B.Sc. and 66 students of S.Y.B.Sc. attended and got the benefit of such facilities.
- Generally A.T.K.T. examinations are conducted along with the term-end examination. It was decided in the meetings of the Principal and Vice-Principal with the Heads of the Departments to conduct A.T.K.T examination sufficiently in advance i.e. in the Month of August to enable the students to prepare for both A.T.K.T. and regular Term-end examination. The results obtained were very good where most of the students could clear their subjects.

**Q. 6 Number of Candidates qualified: NET/ SLET: -**

**Ans:**

	<b>Till 2003 – 2004</b>	<b>In the year 2004 – 2005</b>
<b>NET / SLET</b>	4	-

**Q. 7 Initiative towards faculty development programme**

- Ans:**
- ❖ Department of Information Technology undertook Linux (Operating System) Training programme for teaching as well as non-teaching staff members.
  - ❖ **Prof. (Ms) Golba and Prof. (Ms) Phatak** attended Refresher Course in Statistics at Staff Academy College, University of Mumbai from February 28, 2005 to March 21, 2005 and they have secured 'A' Grade.
  - ❖ **Prof(Ms.) M.T. Wankhede** has attended Refresher Course in Mathematics from February 28, 2005 to March 21, 2005 at Staff Academy College, University of Mumbai and secured 'A' Grade.

**Q. 8 Total number of Seminars/Workshops conducted.**

**Ans:**

**National Conference:**

- **The Department of Botany** had organized UGC Sanctioned 2 day National Conference on "Human Health and Nutrition: A Biotechnological Approach" on December 12 & 13, 2004 sponsored by **UGC** and **Vidya Prasarak Mandal (VPM)**. Over 150 delegates from 11 states of India made their marks at this conference. There were 44 posters from the fields of health, nutrition and biotechnology. The most colorful part of the conference was inauguration of the 300 pages proceedings on the first day of this conference comprising of 75 full-length papers. The proceedings were in the hands of all delegates before the start of scientific sessions.

One of the important achievements of this conference was the assurance by CFTRI and ICMR scientists to visit the tribal belt of Thane district to identify health and nutritional need of tribal and promises to cater to these using appropriate biotechnological tools.

- **Mathematics Exhibition** was organized on the occasion of birth anniversary of Dr. Srinivasa Ramanujan, the great Indian Mathematician in the month of December 2004. Twelve teams of students from F.Y.B.Sc., S.Y.B.Sc. and T.Y.B.Sc. Mathematics displayed their exhibits.
- **Department of Physics**, jointly with Marathi Vidgyan Parishad, Thane Vibhag had organized one-day seminar on “Indian Mathematics” on December 05, 2004. **Four** resource persons were invited for various topics. (Appendix A). Over 250 delegates had shown their presence for the seminar.
- **Department of Library** arranged Three-day study camp of M. Lib. Sci. students on December 25, 26, 27, 2004.



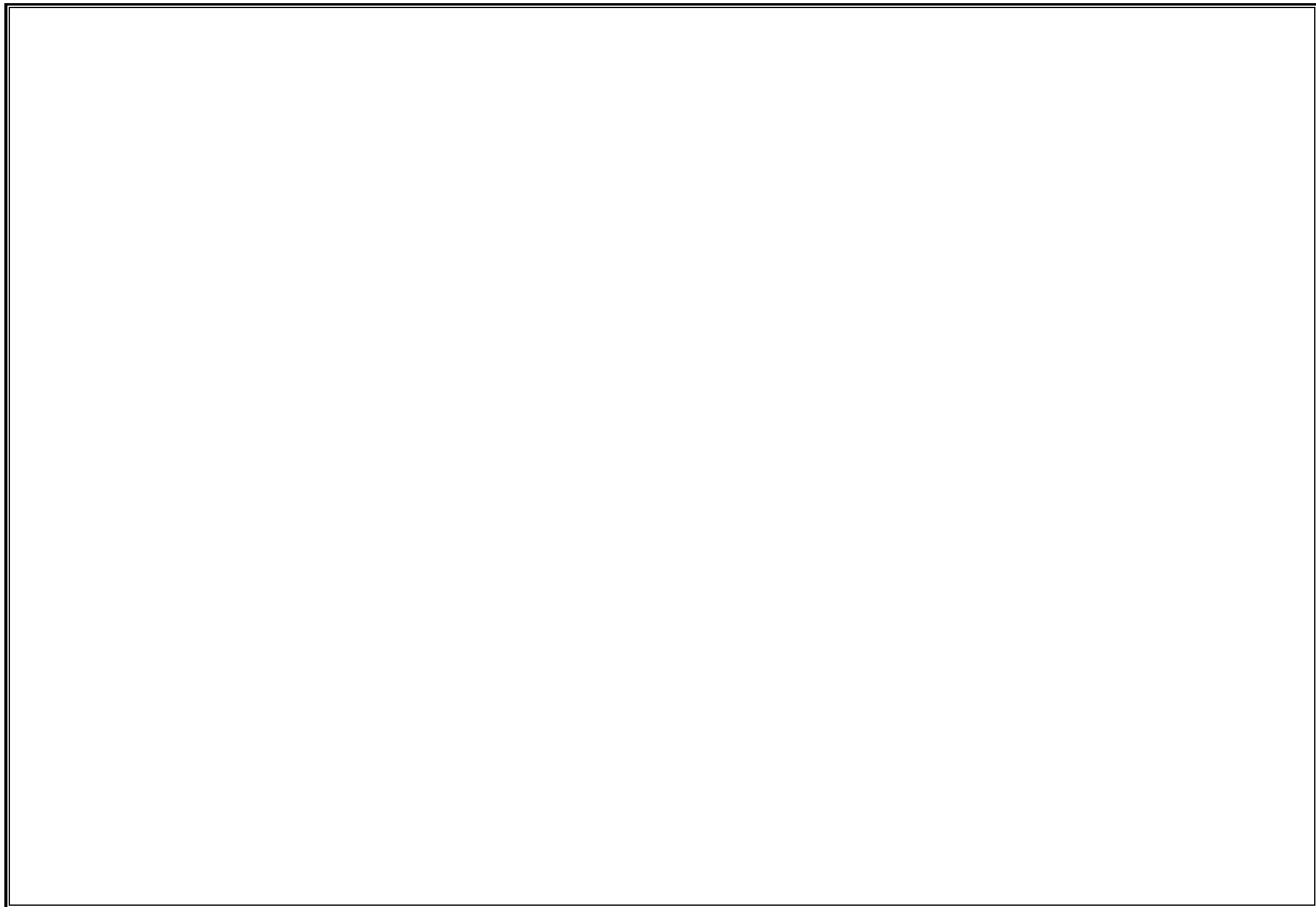
**Q. 9 Research Projects****Sanctioned Project**

Department	Project Title	Sanctioned by	Cost. Rs.	Duration	In-Charge Staff
Zoology	Comparative study of butterflies from urbanized zone, degraded forest and core forest in and around Thane city.	University of Mumbai	10,000 / -	1 Year	Dr. Ms. P. N. Kurve
Zoology	Effect of pollution on mudskipper fishery of Ulhas river estuary with special reference to biology of <i>Boleophthalmus dussumiori</i> .	University of Mumbai	15,000 / -	1 Year	Prof. S. D. Rathod.

**Completed Project :**                      **Till academic year 2003 – 2004 :**                      **04**

***In academic year 2004 – 2005.***

Department	Project Title	Sanctioned by	Cost. Rs.	Duration	In-Charge Staff
Botany	Studies on Fungal entophytes in some tropical grasses and medicinal plants.	University of Mumbai	22,000 / -	12 months	Dr. M. J. Kolet



**Q. 10 Patents generated, if any**

**Ans** ➤ Nil

**Q. 11 New Collaborative Research Programmes:**

**Ans:** ➤ Science and Technology Department of Government of India to inculcate research habit among the students declared Year 2004 as the year of scientific awareness. To achieve the purpose **BARC** selected five colleges from Mumbai region in which one is ours. Several mini research projects were initiated involving students from F.Y.J.C. to T.Y.B.Sc. Following projects were undertaken and successfully completed.

- Analysis of drinking water from a village Devbandh (Javhar Taluka).
- Analysis of mud for nutrients from Yeoor and college campus.
- Fractionation of edible oil to know adulteration.
- To determine pesticides from products available in the local market.
- To determine the difference in nutrition from vegetables from farm and from railway line.
- T.Y.B.Sc. Zoology students worked 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.

**Q. 12 Research Grants received from various agencies:**

**Ans:** Department of Zoology received Rs. 25,000 / - from University of Mumbai for two minor projects.

**Q. 13 Details of Research Scholars**

Number of Research Scholars	Subject	At P.G by Research	For Ph. D.	Name of the guide
07	Zoology	02	05	Dr. (Ms.) M. K. Pejaver Dr. (Ms.) N. N. Patil Dr. R. P. Athalye Dr. (Ms.) S. V. Mahajan
02	Botany	2	-	Dr. N. S. Tekale
04	Chemistry	04	-	Dr. A. N. Bedekar Dr. M. V. Rathnam

**Q. 14 Citation Index of faculty members and impact factor :**

**Ans:** ➤ Due to certain technical reasons reports are not available.

**Q. 15 Honors/Awards to the faculty**

**Ans: Department of Zoology**

**Principal Dr. (Ms.) M.K. Pejaver:**

- **Participated and presented paper at NAAC sponsored National Conference** on Post Accreditation initiatives: Best Practices in Higher Educations held at K.J. Somaiya College of Science & Commerce, Mumbai on September 24, 25, 2004.
- Nominated by Thane Municipal Corporation as a Member to prepare vision document of Thane city.
- Was invited to deliver lectures on
  - 'Need of Environment Education' in the Workshop organized by HOPE Nature Club.
  - 'Role of NGO's in Eco restoration' in a unique three day festival from August 13-15, 2004 titled ' A world of trees' organized by Indigo Consultancy services, The times foundation and Maharashtra Nature park.
  - a guest lecture at Rotary club of Thane on occasion of Rotary Youth Leadership Award" EKLAVYA' (for 100 adivasi youths)
  - House Hold Waste Management in Vijay Nagari Co. Op Hsg. Soc. On February 14, 2005.
  - "Crime and Today's Youth" at Youthoporia held on October 30, 2004.
  - Conservation of water on October 16, 2004 organized by Rotary International Dist. 3140.
  - Solid Waste Management at Rotary Club of Thane on May 03, 2004.
- Chaired a session during National Symposium on Biodiversity, Biotechnology and Environment toxicology in the new millennium and 24<sup>th</sup> Annual session of the Academy of Environmental Biology, (Lucknow) held at Institute of Science on November 24, 2004.
- Invited as resource person to deliver a lecture on "Necessity of Environment Education in School" at workshop for teachers training in environment held in Kudus ( Wada Taluka ) on December 05, 2004.

- Invited as Chief Guest by Lions Club of Mumbai, Knajurmarg for Meritorious Award Function on September 02, 2004 at DAV College, Bhandup.
- Invited as Chief Guest by Anand Bharati Samaj, Thane to felicitate the student who stood first in the SSC examination 2003-2004 on September 25, 2004.
- Visited for Mock NAAC as a peer team member in K.J. Somaiya College of Science & Commerce, Mumbai and Pragati College of Arts and Commerce, Dombivli.
- Worked as Jt. Coordinator for Zoology Workshop of T.Y.B.Sc. Revised Syllabus organized by Board of Studies in Zoology, Mumbai University at Mithibai College on August 22, 2004.
- Worked as Organizing Committee member of National Seminar on "Pollution of Water Bodies in Urban Area ( Case study of Thane city ) at VPM's Polytechnic held on August 08, 2004.
- Invited as a Guest Speaker on May 27, 2004 at NCC annual training camp, Thane
- Was honoured with membership of Innerwheel Club of Thane West in recognition of her exemplary record of social service and contribution to the community as whole.

**Dr. (Ms.) N.N.Patil** (In charge Head of Zoology Department)

- Invited as Subject Expert at Sathye College, Parle on November 24, 2004 and Kirti College, Dadar on November 13, 2004.

**Dr. R.P. Athalye:**

- Invited as 'Subject Expert' for interview of Lecturers post in Zoology at K. V. Pendharkar College, Dombivli.
- Under his able guidance Dr. (Ms.) M. U. Borkar has been awarded Ph. D. degree by Mumbai University on July 27, 2004. The topic for the thesis was " Ecological Studies on Mangrove Ecosystem of Thane Creek".
- Invited to read research paper on "Water Pollution in Thane Creek" by "Indian Society of Environmental Science and Technology (ISEST), Ratnagiri Chapter on December 12, 2004 who organized the seminar.
- Dr. Athalye donated Lynx Stereoscopic Dissecting Microscope

(Rs. 22,000/-) and Adaptor Eyepiece for digital camera (Rs. 2,800 / -) to Zoology Department.

**Dr. (Ms) N. N. Patil and Dr. R. P. Athalye** were invited for framing the syllabus of M. Sc. Part I and II, Mumbai University.

**Dr. Ms. Poonam Kurve** and **Prof. S. D. Rathod** were invited as Judge for National Children Science Congress at Taluka Level (Thane) on October 02, 2004.

**Prof. S. D. Rathod** was invited as Judge for Fine Art Drawing and Painting, collage marking, cartooning and Elocution competition at Jankibai Rama Salvi College, Kalwa, Thane.

### **Department of Mathematics**

**Prof. R. S. Poddar** (Head, Mathematics Department)

- Appointed to work as Member of Local Inquiry Committee by University of Mumbai on January 19, 2005 for extension of affiliation for certain courses of B.N.N college, Bhiwandi.
- Worked as a subject expert in Mathematics in the selection committee meeting on September 13, 2004 for Career Advancement at Acharya & Marathe College of Arts, Science & Commerce, Mumbai, constituted by University of Mumbai.
- Was invited by Pragati College, Dombivali to be the chief guest at workshop for teachers teaching FYBCom paper of Mathematics and Statistical Techniques on July 03, 2004

**Prof. (Ms.) S. N. Joglekar**

- Invited to examine R.M.O.(Regional Mathematical Olympiad) Answerbooks by National Board of Higher Mathematics (NBHM) on December 08, 2004.

### **Department of Chemistry**

**Prof. S.G. Medhekar** ( Head, Chemistry Department )

- Was invited as a subject expert for the interview of post of lecturer, in Vaze-Kelkar College Mulund, Mumbai and BNN College, Bhivandi.

**Ms. Karnik P.P.**

- Was invited as a University nominee for the interview of lecturers for selection grade.

**Dr. Atul Bedekar**

- Was invited to give lecturer on Quality management of construction

material at Grand Hayat hotel .

**Prof. (Ms.) Mahajan V. V.**

- Was honored as a trustee member of “Vrukshavalli”, an NGO.

**Department of Botany**

**Dr. (Ms.) M. S. Mulgaonkar** (Head, Botany Department)

- Was honored as a trustee member of “Vrukshavalli”, an NGO.
- Dr. (Ms.) M. S. Mulgaonkar was elected as fellow of Mendelian Academy of Science.
- Was awarded First Prize in Poster presentation in Biotechnology division in the National Conference arranged by Botany Department.
- Was nominated as subject expert on selection committee to select lecturer in Botany at Birla College, Kalyan.

**Dr. N. S. Tekale**

- Worked as a member in H.S.C. Board Syllabus Committee of Biology.
- Was awarded First Prize in Poster presentation in Nutrition division in the National Conference arranged by Botany department.

**Dr. M.J. Kolet**

- Was felicitated for research contribution by Shailec Mandal, Thane, on 13.06.2004
- Officiated as subject expert for selection of lecturer at CHM College, Ulhasnagar.
- Officiated as subject expert IN botany during panel interview at D.G. Ruparel College, Mumbai.

**Dr.( Ms.) M. Saha**

- Received excellence in Teachers category in Poster presentation at National Seminar in Microbiology conducted by Birla College, Kalyan.
- Worked as Judge for science association by Century School.

**Department of Physics**

**Dr. M. N. Nyayate**

- Invited to give talk during the Workshop on Physics for T.Y.B.Sc. students organized by Department of Physics, Patkar College of Science, Arts and Commerce, Goregaon, Mumbai.

- Delivered a Lecture on “ Solid State Physics : Superconductivity” for T.Y.B.Sc. students at ICL college, Vashi, New Mumbai.

**Prof. N. D. Mandge**

- Chief guest for inauguration of School Annual Science, Drawing and Craft Exhibition Secondary School, Kalwa Thane on December 15, 2005.
- Chief Speaker at the Seminar on “Teachers role in Educational Institution” Specially arranged for the members of the teaching Staff of viva College, Virar Dist – Thane.

**Prof. S. Venkatraman**

- Appointed as District Coordinator of N.S.S.

**Department of Information Technology**

**Mr. Abhijeet Kale** ( Prof. Incharge, I.T. Department)

- Invited as Guest Lecturer on topic : Internet Security for T.Y.B.Sc. (IT) students at S.I.E.S. Nerul College on September 02, 2004.

**Q. 16 Internal Resource Generated.**

**Ans:**

- **Research Grants**  
Rs. 25,000 / - from University of Mumbai.
- **UGC Funding**  
Rs. 1,00,000 / - to Botany Department for National Conference.  
Rs. 7,00,000 / - as seed money for add on courses in Horticulture, Biodiversity and Industrial Chemistry. ( Returned back to UGC ).

**Q. 17 Details of departments getting SAP,COSIST/DST, FIST etc. assistance/ recognition:**

**Ans:**

- Nil

**Q. 18 Community services:**

- **Principal Dr. (Ms.) M. K. Pejaver** is the Life Member of NGO Hariyali, Trustee of NGO HOPE Nature Trust through which environment related activities are done throughout the year. The



activities are tree plantation, Rainwater harvesting, Water recycling, and lectures, exhibitions related to environment. She has very active participation in all these activities.

- **Principal Dr. (Ms) M. K. Pejaver** as Life Member of Hariyalli participated in the entire tree plantation drives throughout the year. Also as a Trustee of HOPE Nature Trust has participated in Rain Water harvesting programmes getting conducted by trust in Wada Taluka.
- **Principal Dr. (Ms) M. K. Pejaver, Dr. (Ms) Poonam Kurve**, our research students **Ms. Sampada Tadphale, Mr. Amol Patwardhan** photographed and written script on butterflies for a calendar published by **Hariyali, NGO. Hariyali** utilizes the funds generated by this project for the conservation of nature and water.
- **Dr. M.J.Kolet** accompanied HOPE group as Resources person to Yeoor Forest.
- **Prof. (Ms.) P. P. Karnik** gives regular service at Rotary club of Thane (E) in various community projects conducted by club.
- **Prof. Dixit (Jr.College Vice Principal), Dr. R. P. Athalye, Mr. Misal (Head Clerk)** gives regular service at Shri Ambica Yoga Kutir, Thane to import yoga training to the participants while **Ms. Karbhari (Teacher, Jr. College)** offers her services for Yoga training in college premises.
- **Dr. Ms. Poonam Kurve** has donated Rs. 2000 / - to Kushtarog Nivaran Samittee.
- **Our T.Y.B.Sc. Zoology students** participated in environmental activity "Nisargmela" organized by NGO Enviro Vigil, Thane.
- To celebrate Vanmahotsav Week between July 01, 2004 to July 07, 2004, our **T.Y.B.Sc. students** participated in tree plantation and plastic garbage collection programme at Yeoor Hills. They were accompanied by **Prof. S. D. Rathod** and **Dr. (Ms.) V. D. Manjramker**.
- **N.C.C. (Boys and Girls Unit)**

We are proud to state that our college is one among the few institutions selected as a part of an All India experiment on running co-educational mixed NCC Battalions.

- ❖ Our cadets were part of 50 NCC social workers who carried out tree-seed plantation at Bhiwandi along with Hariyali organization, just before monsoon in June 2004.
- ❖ SD and SW cadets participated in tree plantation drives in our college campus and at Neral.
- ❖ A Blood donation programme was jointly organized with our NSS unit in the college campus. 18 SD and SW cadets donated 300cc blood each during the camp in August 2004.
- ❖ 3 SD cadets also donated blood at the DG NCC National Integration Camp at New Delhi in November 2004.
- ❖ 35 SW girls took part in the pulse polio-programme on February 22, April 04, May 23 and July 04, 2004.



- ❖ A contingent of 30 cadets participated in a rally organized by the Dept. of Social Welfare, Zilla Parishad, Thane on July 26, 2004 to spread awareness regarding social justice.
- ❖ The entire NCC unit took part in the 'Vigilance Week' observed all over India from November 01, 2004 to November 07, 2004. An awareness lecture was delivered by Dr.(Mrs.) M K Pejaver on the evils of corruption. All cadets pledged to keep themselves away from the evil of corruption and bribes.

- ❖ N.C.C. girls unit planted 600 saplings of economic and medicinal value, on September 12, 2004 at Ovale village near Thane.
- ❖ N.C.C. girls participated in Public awareness rally organized by Hariyali, NGO from Thane to stop immersion of Ganapati idols and non-degradable material into the lakes of Thane City and save them from getting polluted.
- ❖ A tree plantation programme at Navasheva Village and JNPT and Blood Donation Camp at JNPT by N.C.C. girls unit was arranged under guidance of **Dr. Ms. V. D. Manjramkar**. She also rendered help to TMC for Pulse Polio Immunization Programme on July 04, 2004.

➤ **N.S.S.**

- ❖ N.S.S. unit organized various tree plantation programmes.
  - Dindeshwar (Sohale) along with Hariyali.
  - I.I.T. Powai and Vihar Lake in collaboration with Brihan Mumbai Municipal Corporation.
  - In college premises along with VPM Management.
- ❖ Blood donation camp was held in collaboration with J.J. Group of Hospitals, Mumbai and Citizens Group, Mumbai. 130 bottles of blood were donated.
- ❖ N.S.S. Students participated in Ganapati Immersion Programme on September 27, 2004.
- ❖ Workshop on “Violence against women” was arranged on November 23, 2004.
- ❖ N.S.S. students participated in “AIDS Awareness Rally” organized by Thane Municipal Corporation on December 01, 2004.
- ❖ N.S.S. students participated in a huge rally on “Violence against women” on December 10, 2004.

**Q. 19 Teachers and officers newly recruited?**

**Ans:** ➤ Newly recruited Teaching Staff:

**Q. 20 Teaching-Non-teaching staff ratio?**

**Ans:** ➤ 56 : 74

**Q. 21 Improvements in the library services:**

**Ans:** ➤ Our college runs B. Sc. (I.T.) and M. Sc. (I.T.) courses and together we have 172 students enrolled. I.T. books are very costly and not affordable by most of the students. All the students when visit the library for home issues it makes the other functions of library also paralyzed. Hence to give proper justice to these students, Department of Information Technology has started departmental library with separate Asst. Librarian. One of the I.T. Laboratories, in its free time, is used as Reading hall for I.T. students only.

➤ This year 4 students were benefited by Book-Bank facility.

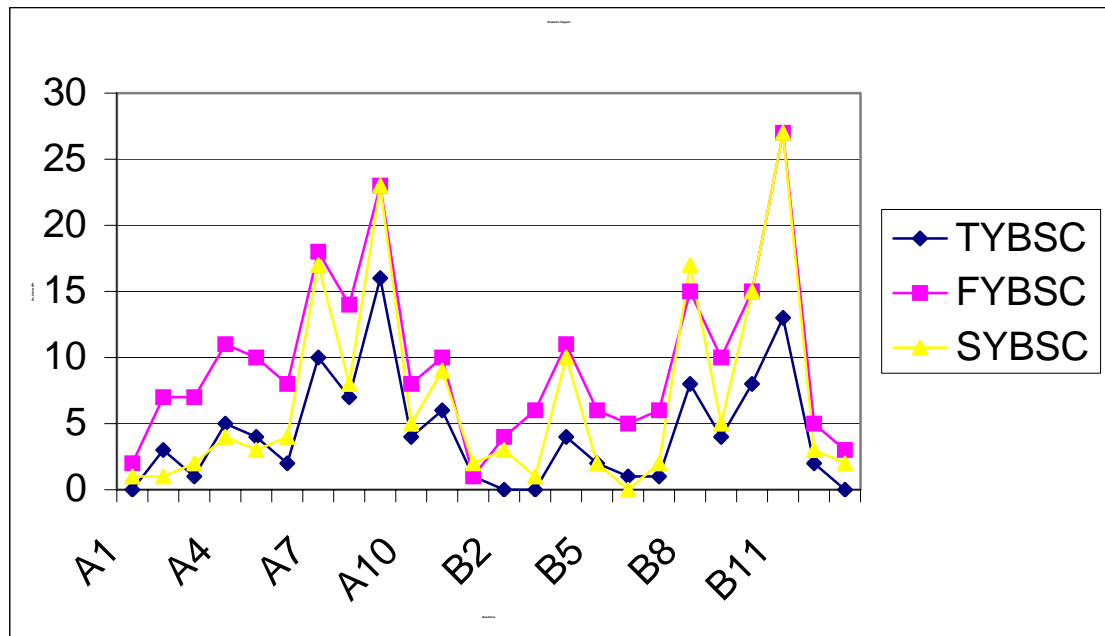
**Q. 22 Number of new books / journals subscribed and their value:**

Description	No. of	Value	Total
<b>Books</b>	915	1,94,731 / -	17,489
<b>Subscribed Magazines</b>	04	-	20
<b>Journals</b>	09	-	30

**Q. 23 Courses for which student assessment of teachers is introduced and the action taken on student feedback:**

**Ans:** ➤ Student's assessment forms were specially drafted (copy of which attached). Student assessment was taken for every teacher and the percentage of each question for all teachers was calculated (Please see the graph below). The gray areas where most of the teachers were

scoring less than 60% marks will be discussed in year-end meeting. The specific teachers who have scored less than 60% marks in specific question / s will be called separately by the Principal and course of action will be decided.



**Q. 24 Unit cost of education:**

- Ans:**
- **For Aided Course**  
Rs. 29,876 / -
  - **For Self-Financing Course**  
Rs. 16,370 / -

**Q. 25 Computerization of administration and process of admissions and examinations results, issue of certificates:**

- Ans:**
- New Web based application is developed using JSP technology, which takes care of our administrative work, post admission work like generating identity cards etc. The software will be updated soon to find results, attendance of the students etc.
  - For current academic year separate FoxPro programmes were developed for attendance and result preparation.

**Q. 26 Increase in the infrastructural facilities:**

- Ans:**
- Separate department for Mathematics and Statistics is established in this year with
    - Separate cabins of H.O.D. of Mathematics and H.O.D. of Statistics
    - Room for Teaching staff of Mathematics and Statistics departments
    - Room for Non-teaching staff of Mathematics and Statistics departments
    - Two small classrooms to conduct tutorials for students, within the department
    - New classroom for T.Y.B.Sc. Mathematics students.
  - New Toshiba Copier and Printer are added in **Office**.
  - 35 new Computers with Linux Operating Systems are added and are distributed to various departments according to their needs.
  - New notice boards for various clubs and committees like cultural association, Magazine, Gymkhana, NCC, NSS, and Employment Cell etc. are put for displaying notices.
  - New Open stage has been built in the lawn of Science College and was inaugurated on December 23, 2004 with gathering held on same day.
  - **Department of Zoology** has added Digital Balance and Electrophoresis apparatus.

Lynx Stereoscopic Dissecting Microscope ( Rs. 22,000 / - ) and Adaptor Eyepiece for digital Camera ( Rs. 2800 / - ) were received as Donation by Dr. R. P. Athalye.
  - **Department of Information Technology** has added 10 Resistance boxes, 15 Power Supplies (Dual, Fixed and Variable), Two LQ 1170 Printers, 4 CROs and 10 Multimeters.
  - **Department of Chemistry** has added 60 kits for microanalysis, spectrometer, pH meter, Potentiometer, colorimeter, muffle furnace, one each, two conductometers, one freeze, one microwave oven required for PG and Research students.

**Q. 27 Technology Upgradation**

- Ans:**
- Our management is planning to migrate from Windows Operating System to Linux because of its advantages. As a part of this activity and by observing needs of various departments, college has added

new 35 Linux based machines.

- Through Department of I.T. Linux training programmes for teaching as well as non-teaching staff were organized and the activity will continue in next academic year.

**Q. 28 Computer and Internet Access and Training to teachers and students**

- Internet access is available to all teachers, non-teaching staff and research students for all 24 hours from last two years.
- In every department we have computer for teaching as well as non-teaching staff. Hence computer and Internet access is very easy. In I.T. department we have 50 computers for 175 (approx.) students and department remains open from 8.00 a.m. to 05 p.m. Hence Internet access is very easy.
- Through Department of I.T. Linux training programmes for teaching as well as non-teaching staff were organized and the activity will continue in next academic year.
- Through Department of I.T. Internet Training Programme was conducted for B. Lib. Sci. and M. Lib. Sci. students of YCMOU.

**Q. 29 Financial aid to students**

- In the academic year 2003-2004, following major scholarships helped students from financial aspects.

• Government Scholarship	43 students
• Government freeship	110 students
• Zilha Parishad Scholarship and Freeship	364 students

In addition to this fees of five students were partially or fully paid by college through students welfare fund.

**Q. 30 Activities and support from alumni association:**

- Our past student **Dr. Harshwardhan Godbole donated 101 Pounds** to our past student association "Anubandh".
- Our past students Mr. Mayuresh Dhonde and Ms. Alpana Gupte donated

Rs. 5000 / - through “Anubandh” to VPM for a prize to student from Statistics who will stood first in college at T.Y.B.Sc. Examination.

- Our college participated in Inter collegiate One act play competition, held for “Alpha Karandak”, Thane center and “Mrigjal”, Mumbai. **Mr. Vijay Mane** a **Well-known dramatician** and **also an ex-student** of our college had put his great efforts in directing Marathi one act pay “Kaun sang bandhe dor.” Students have given their best of performance.
- **Mr. Vijay Shukla**, who is our **ex-student** had arranged the sets for the drama.

Our achievement in “Alpha” Mahakarandak “held at Thane center.

Best Play : Third award

Best Direction : Third award – Viju Mane

Best Actor : II nd prize – Sameer Date

Consolation Prize : Miss Swamini Deshpande

Our team also reached the final round of “Mrigjal” competition and bagged third prize.

- A programme of a dialogue with the artists performed in Marathi film “Bhiti ... Ek Satya”. Mr. Viju Mane, our past student and co-director of the film interviewed the famous artists Mr. Avinash Narkar, Ms. Aishwarya Narkar (our past student), Mr. Shekhar Phadke, Mr. Subhash Phadke and Mr. Abhijeet Chavan.
- A programme on Interview Skills was arranged by **Anubandh** on January 29, 2005 where our past students Mr. A. N. Vinze (Mass Communication and Journalism Field), Mr. Shashank Rasal ( From ACC Cement), Mr. Abhay Gadiyar( CEO of Nitya Placements) and Mr. Uday Nirgudkar ( CEO Lawkim Godrej) guided students for how to prepare for interview.

#### **Q. 31 Activities and support from the parent teacher association**

- Ans:**
- This year we thought of taking regular meetings of Parents to discuss various issues like attendance in the class, academic performance of the students, industrial visits, meditation programme, employment and



counseling cell, discipline, health, study tours etc. All teachers and parents actively participated in the discussion. This has helped to build a rapport between teachers and parents. Suggestions, which came from parents, were implemented together with all departments.

- At the beginning of the year the students meeting of every class was taken where the rules and regulations, different courses offered by college, different facilities were explained in detail with the help of audio visual facility.
- The meeting of the parents of defaulter students was also called at the end of I<sup>st</sup> Term and we had good discussions.
- Different departments also conducted the parents meetings of T.Y.B.Sc. Students in which different issues were discussed.
- All these activities helped in improving the attendance and improving the results.

**Q. 32 Health Services:**

- Last year for our N.C.C. students the obstacle path was build which helps them to have a good practice and health activity.
- First aid boxes are regularly checked and replacement of medicines is done.
- Department of chemistry had arranged one programme on “Meditation and Healing” for T.Y.B.Sc. students. Prof. Vijaya Shastri and Ms. Sakina Chalisa conducted the programme. About 85 students and teachers of chemistry department participated in it.
- Yoga Club arranges yoga training programmes every year for students and staff of VPM institutes. Training is organized under the guidance and co-operation of Shri Ambica Yoga Kutir of Shri Nikam Guruji, Thane. The training proves useful to the students and staff in maintaining good physical and mental health. This year two batches of students were made, one for students of our Science College and other for Arts and Commerce College from our own campus. The classes were conducted during July to September 2004. 70 students and 2 staff members completed the training. A valedictory function was arranged on September 10, 2004 for which Prof. Kundergi of Shri Yoga Kutir was the chief guest.

**Q. 33 Performance in Sports activities:**

**Ans:** We believe that '**Health is Wealth**' and have to encourage students for participation in various sports. We conduct various competitions through out the year at our college level. We conduct chess, badminton, tabletennis tournaments for our students. We also celebrate sports day when we conduct running, long jump, short put competitions. In all these events our students participate in large number. But in addition to this we also encourage the students to participate in intercollegiate as well as University level tournaments.

Our students are showing amazing performance in bodybuilding for last few consecutive years.

- Mr. Suraj S. Waghmare (S.Y.B.Sc.) secured Gold Medal in intercollegiate 'Best Physique' competition at Mumbai University level.
- Mr. Prasad S. Parab (S.Y.B.Sc.-I.T.) secured Bronze Medal in intercollegiate Powerlifting competition at University of Mumbai level.
- Mr. Vaibhav S. Tandel (T.Y.B.Sc.-I.T.) secured Bronze Medal in intercollegiate Powerlifting competition at district level.

**Our Junior College students are also equally good in sports.**

- Student named Mr. Chinmay Paranjpe (S.Y.J.C.) secured Gold Medal in intercollegiate Gymnastics & Acrobatics competition at district, divisional, zonal as well as National level. He has been also awarded **Sport scholarship of Rs. 7000/-** by Sport authority of India, Patiyala for sport performance at National level for the year 2003-04. We are proud of Mr. Chinmay Paranjpe.
- Mr. Sanket Sawant (F.Y.J.C.) secured Gold & Silver medal in intercollegiate Gymnastics competitions at district, divisional, zonal & state level.
- Mr. Sagar A. Utekar (F.Y.J.C.) secured Gold medal in intercollegiate karate competition held at Goa.
- Ms. Tejaswini Shinde (F.Y.J.C.) secured Gold & Silver medal in

intercollegiate Swimming competition at district, divisional, zonal & state level.

**Q. 34 Incentives to outstanding sportspersons:**

**Ans:** Nil

**Q. 35 Student achievements and awards:**

**Ans:**

Teamwork and determination fetched us many trophies in various heads. For a moment we felt the skill and grace of professional artists in all our performers. The play was successful as it gathered appreciation and loud applause from the audience.

**Prize winners**

Title of Play : "Kaun Sang Bandhe Dor".

Writer/Director – Viju Mane

Set – Vijay Shukla

Light : Ravi Yogesh

**(For "Alpha" preliminary round)**

Sunil Devlekar (For "Mrigjal" and Final of "Alpha")

Music – Abhijit Kende

Dance – Tammanna Murdeshwar

Lyrics – Abhijit Panse.

➤ **Seminars and Workshops**

- Mr. Amol Patwardhan, Ph. D. student of Dr. R. P. Athalye from Zoology Department was invited for an International Seminar on "Biodiversity Informatics" organized by National Chemical Laboratory Pune from December 07, 2004 to December 09, 2004.
- Mr. Salil S. Sawarkar of S.Y.B.Sc. (MS) gave the seminar on "Cycloid" in the Inter-Collegiate Mathematics Seminar Competition held in Ruia College, Mumbai, on January 13, 2005. He was awarded a prize in the form of a Mathematics reference book and certificate of participation.
- Mr. Vijay Kumar Singh of T.Y.B.Sc. Mathematics was selected to participate

in the X<sup>th</sup> workshop in Mathematics held at Department of Mathematics, I.I.T. Bombay from November 02, 2004 to November 07, 2004.

- A group of 5 students was send through F.C. Department to participate at the state level seminar conducted by SNDT College of Womens.
- Following S.Y.B.Sc students participated in “Srujan” held at CHM College Ulhasnagar on January 10 & 11, 2004 and presented their projects.
  1. Rutuja Patil and Sampada Patil- “Study of wheat plant in relation to herbicide (glyphosate).”
  2. Sanchita Choudhri, Arti Desai and Vrushali Badgujar- “Defence proteins in onion leaves”.
  3. Myur Shinde and Balwant Singh – “Weed management”
  4. Vikas Jiaswar and Amol Shinde- “Physiochemical properties of Soil in relation to plant growth.”
- Two students : Mr. Katake Nitin A. & Mr. Salunke Santosh S. of TYBSc Maths exhibited Mathematical charts on “Fermat's Last Theorem” at the Gyan Manthan 2004, an intercollegiate academic festival held at Royal College, Thane District, an September 15, 2004.
- Following students presented seminar on various topics in Mathematics, which are not the part of core syllabus on 28<sup>th</sup> September 2004.

Mr. Singh Atul P.	T.Y.B.Sc. Mathamatics
Mr. Nitin Katake A.	T.Y.B.Sc. Mathamatics
Mr. Singh Vijay	T.Y.B.Sc. Mathamatics
Mr. Jha Rajiv	T.Y.B.Sc. Mathamatics

#### **Paper / Poster Presentation**

- Mr.Rajiv Jha of TYBSc (Maths) and Mr. Vijaykumar Singh of TYBSc (Maths) presented a paper at the UGC sponsored conference on “Surprises in Mathematics and its applications” held at Vivekanand College of Arts, Science and Commerce, Chembur, Mumbai on January 17, 2005. Head of the Dept. of Maths Prof. R.S. Poddar guided these students in preparation and presentation of the paper. These students received certificates and also cash prize for presenting the paper.
- Our S.Y.B.Sc. students Rutuja Patil. Sampada Patil, Sandeep Sonawane, Mayur Shinde, Amol Shinde, Vikas Jaiswar, Balwant Singh participated and

presented a poster entitled “ Effect of herbicide (glyphosate) on nutritional values of wheat crop. In National Conference held by our Botany Department.

- Sanchita Choudhri, Arti Desai and Vrushali Badgujar participated and presented a poster entitled “Partial Purification and Kinetic properties of tyrosinase and dopa oxidase from onion leaves” in the same National Conference under the guidance of Dr. Anita Goswami.
- M. Sc. students- Adesh N.Naik and Paresh S.Bhosale - participated and presented a paper in 41<sup>st</sup> Annual Convention of Chemist, held at Department of Chemistry, University of Delhi on December 23, 2004 to December 27, 2004 under the guidance of Dr Atul Bedekar.

### **Others**

- Mr. Vikram V. S. Borhade writes “suivcar” (good values statement) on T.Y.B.Sc. Mathematics class Blackboard everyday.
- Pranali Mohite (T.Y.B.Sc. Zoology) got a Consolation Prize in Intercollegiate Poem Competition organized N.E.S. Ratnam Science College, Bhandup.
- 9<sup>th</sup> Konkan Marathi Samelan was held in Thane in which one book on poems named “Chaitanyachi Palavi” was published, in which poems of 13 students from our college are published.
- Our student participated in self written poetry reading jointly organized by “Maharashtra Janamudra” and “Kutumb Ranglay Kavyat”
- Ms. Poonam Mhatre JUO, N.C.C. Girls Unit received Sahara Scholarship of Rs. 15,000 / -.

### **Literary Association**

Literary Association activities for the academic year 2004 - 2005 were started from the month of July 2004. We organized various competitions such as Essay Writing, Poetry Writing, Elocution and Debate at our college for Junior and Degree College students.

About 60 students participated in these competitions.

We encouraged and prepared our students to participate in various competitions held by different organizations outside the college campus. Around 45 students participated in various competitions.

## Inter Collegiate Competitions

Sr. No.	Organized By	Student Name	Prize Won	Competition
1	Dnyansadhana College	Geetesh Shinde	First Prize	Poetry competition
		Srushti Ankolekar	Consolation Prize	
2	R. K. T. College of Arts, Science & Commerce	Avdhesh Yadav	First Prize (Consecutive Third Year)	Debate competition
3	Vani Vidyalaya, Mulund Golden Jubilee 2004 – 2005	Archit Vaidya	First Prize & Trophy	Elocution competition
4	Kala Sangam - Akhil Bharatiya Vidyarthi Parishad	Geetesh Shinde	First Prize	Poetry competition
5	Siddhartha College of Arts, Science & Commerce	Avdhesh Yadav	First Prize in Hindi & third prize overall in all four languages	Elocution competition
6	Yashwantrao Chavan Pratishthan, Mumbai	Srushti Ankolekar	First Prize	Essay competition
7	Yuva - Chetana Youth Festival	Geetesh Shinde	First Prize	Poetry competition
8	Dnyansadhana College	Suyog Marathe	Second Prize	Elocution competition
		Shehal Mulay	Third Prize	
9	Dnyansadhana College	Srushti Ankolekar	Second Prize	Love letter writing
10	Mumbai Marathi Sahitya Sangh	Kalpana Jain	Consolation Prize	Elocution competition
11	Ghanshyamdas Saraf Girls' Arts & Commerce College	Avdhesh Yadav	Consolation Prize	Debate competition
12	Anti Dowry Movement, Bombay & Adarsh College	Avdhesh Yadav	Fifth Prize	Elocution competition
		Shehal Mulay	Seventh Prize	

**State Level Competition**

Sr No	Organized By	Student Name	Prize Won	Competition
1	Vikas Anubhav Shiksha Kendra, Ratnagiri	Srushti Ankolekar	First Prize	Essay competition
2	Akhil Bharatiya Lokseva Samiti	Geetesh Shinde	First Prize	Aadarsh Kavi Purskar
3	Shree Akshardhan by Sau. Lilatai Chogale	Geetesh Shinde	Second Prize	Poetry competition
4	Nashabandhi Mandal, Maharashtra State	Geetesh Shinde	Excellent Poetry Certificate	Poetry competition

**District Level Competition**

Sr. No.	Organized By	Student Name	Prize Won	Competition
1	Rajmata Ahilyadevi Pratishthan	Geetesh Shinde	First Prize	Poetry competition
2	Maharashtra State Social welfare dept., Thane	Srushti Ankolekar	Third Prize	Essay competition
3	Mumbai Marathi Sahitya Sangh	Kalpana Jain Deepali Jadhav	Consolation Prize	Elocution competition
4	37 <sup>th</sup> Inter Collegiate Cultural Competition 2004 - 2005 University of Mumbai	Avdhesh Yadav	Selected for the final round	Elocution competition
5	Yashwantrao Chavan Pratishthan, Mumbai	Srushti Ankolekar	First Prize	Essay competition
6	Anti Dowry Movement, Bombay & Adarsh College	Avdhesh Yadav Shehal Mulay	Fifth Prize Seventh Prize	Elocution competition
7	Ghanshyamdas Saraf Girls' Arts & Commerce College	Avdhesh Yadav	Consolation Prize	Debate competition
8	K. J. Somaiya College	Avdhesh Yadav		Elocution competition
9	Yuva - Chetana Youth Festival	Geetesh Shinde	First Prize	Poetry competition
10	R. K. T. College of Arts, Science & Commerce	Avdhesh Yadav	First Prize (consecutive 3rd year)	Debate competition

11	Dnyansadhana College	Geetesh Shinde	First Prize	Poetry competition
		Srushti Ankolekar	Consolation Prize	
12	Dnyansadhana College	Suyog Marathe	Second Prize	Elocution competition
		Shehal Mulay	Third Prize	
13		Srushti Ankolekar	Second Prize	Love letter writing
14	Kala Sangam - Akhil Bharatiya Vidyarthi Parishad	Geetesh Shinde	First Prize	Poetry competition
15	K. J. Somaiya College	Gauri Mahajan	Second Prize	Bhagawat Geeta Recitation
16	Siddarth College of Arts, Science & Commerce	Avdhesh Yadav	First Prize in Hindi & Third prize overall in four	Elocution competition
17	R. J. College	Avdhesh Yadav	Second Prize	Elocution competition

#### **Various other Intercollegiate competitions**

Students of B. N. Bandodkar College of Science have made us proud by participating and winning prizes in various intercollegiate competitions.

1. Varun Deore S.Y. IT - 1<sup>st</sup> prize. Solo singing in Chetana College - 2004. Bandra.
2. Varun Deore S.Y. IT - 2<sup>nd</sup> prize. Solo singing in N.K.T. T. College - 2004. Thane.
3. Varun Deore S.Y. IT - 3<sup>rd</sup> prize. Solo singing in Kshitij Ruparel College - 2004. Mumbai.
4. Varun Deore S.Y. IT - 1<sup>st</sup> prize. Solo singing in Ghanshyamdas Saraf Girls College - 2004. Malad.
5. Varun Deore S.Y. IT - Solo singing in Youth Festival Mumbai University was 4<sup>th</sup> position.
6. Mayuresh Joshi F.Y.J.C. - winner Tabla - Balu Bakre Music Competition. Thane.
7. Ms. Rasika R. Mestry T.Y. B.Sc. - 1<sup>st</sup> prize Rangoli in Mantra - 2004. Ratnam College, Bhandup.
8. Ms. Vidya T.Y. B.Sc. - 1<sup>st</sup> prize Rangoli in Mantra - 2004. Ratnam College, Bhandup.
9. Ms. Vaishali T.Y. B.Sc. - 1<sup>st</sup> prize Rangoli in Mantra - 2004. Ratnam College, Bhandup.
10. Ms. Deepti T.Y. B.Sc. - 1<sup>st</sup> prize Rangoli in Mantra - 2004. Ratnam College, Bhandup.
11. Ms. Rasika R. Mestry - 2<sup>nd</sup> prize in Rangoli competition in N.K.T.T. Rang Tarang - 2004. Thane.



**Q. 36 Activities of guidance and counseling unit.**

**Ans:** ➤ College has appointed separate counselor. The counseling session started in the month of August and provided counseling both in the areas of emotional and career related concerns. The response to the counseling center was good. Approximately 45 students were benefited regarding Career related concerns while 12 students were counseled for emotional concerns.

**Q. 37 Placement services provided to students.**

**Ans:** ➤ Our college has a separate Employment Cell, called '**GRAB IT**' through which campus interviews of various companies were arranged. Through these many of our college students got the placements. Details are as follows:

Interview Date	Company Name	Students appeared	Students Selected
February 08, 2005	Apex Laboratories Ltd.	32	07
February 12, 2005	CEAT Limited	09	
February 15, 2005	L & T InfoTech Ltd.	42	6
February 16, 2005	Innovsource Solutions Pvt. Ltd.	72	31 Direct recruitment, 24 Training
February 28, 2005	L & T InfoTech Ltd.	37 (I.T. students)	10

**Q. 38 Development Programme for non-teaching staff.**

**Ans:** ➤ Department Of Information Technology has undertaken project to train non-teaching staff for newly developed software for admission, attendance as well as administrative work. Department of Information Technology is also making non-teaching staff aware of Linux Operating System.

➤ An exhibition was arranged during the three-day annual gathering, which showed the talent of non-teaching staff. Painting, Photographs, Sketches

and Clay and Fiber statues made by the non-teaching staff were the added attraction of the gathering.

- Mr. Misal (Head Clerk ) and Mr. B. B. Jadhav (Clerk) participated in one day Seminar on “Maintaining of Service book and Provident Fund Accounts” held on April 07, 2004 organized by Non-Teaching staff of Nagindas Khandwala College of Commerce and Arts, Mumbai.
- Mrs. Namjoshi, Typist, attended Camp related to data feeding in the computers organized by Zelha Parishad in Ruia College on March 15, 2005.



**Q. 39 Healthy Practices of the institution**

**Ans:**

- Yoga Club arranges yoga training programmes every year for students and staff of VPM institutes. Training is organized under the guidance and co-operation of Shri Ambica Yoga Kutir of Shri Nikam Guruji, Thane. The training proves useful to the students and staff in maintaining good physical and mental health. This year two batches of students were made, one for students of our Science College and other for Arts and Commerce College from our own campus. The classes were conducted during July to September 2004. 70 students and 2 staff members completed the training. A valedictory function was arranged on September 10, 2004 for which Prof. Kundergi of Shri Yoga Kutir was the chief guest.
- **College school complex**  
Under this scheme a group of 40 students accompanied by two staff members from A.K.Joshi English medium school Visited college campus on July 31, 2004 for nature study. Dr. Mulgaonkar, Dr. Jamdade, Dr.. Borkar, Dr. Kurve , Mr. Amol Patwardhan and T.Y.B.Sc. Botany students guided them. Students observed and studied the Medicinal plants, plants

included in their syllabus, Butterflies and birds from college campus. They prepared a report of their observation.

Through this scheme, Zoology Department offered help to various schools to complete their science projects for the science congress exhibition. This included identification of plants and animals and analysis of water samples. Following schools took benefits of this facility.

- A. K. Joshi School. Thane
- Saraswathi English Medium School, Thane, Sahakar school Kalawa.

A practical session was arranged for students from schools in Thane city who cleared Bhabha Jr. and Sr. Scientist examination on January 08, 2004.

**Science Square activities:** Since, Year 2004-05 is declared as a year of scientific awareness by science and technology department of government of India to inculcate research habit among the students, we have formulated this group namely **Science Square**.

Our college is selected along with four other colleges from Mumbai for various projects in the field of Science.

A lecture of Dr. Sharad Kale, an eminent scientist from BARC on "Inculcation of Scientific Spirit" was arranged. Another lecture of Raman Magsaysay award winner Dr. Sandeep Pandey was arranged. The topic was to work for Vishvashanti and to make use of science for the betterment of the mankind.

Several mini research projects were initiated through this scheme involving students from F.Y.J.C. to T.Y.B.Sc. of our college.

We arrange some programmes through Staff Academy every year. This year we had arranged a programme on Provident Fund and Pension Rules and Regulations. It was open for teaching and non-teaching staff. The programme was latter followed by entertainment programme by Mr. Praveen Davane.

We also felicitated following staff members in this programme.

- Prof. Mali from Jr. College for completing his M. Ed.
- Dr. Ms. Mulgaonkar, Head, Botany Department for getting Mendelian Fellow Award.
- Dr. Ms. Borkar from Jr. College for completing her Ph. D.

**Q. 40 Linkage developed with National / International, academic / Research bodies.**

- Ans:**
- Science and Technology Department of Government of India to inculcate research habit among the students declared Year 2004 as the year of scientific awareness. To achieve the purpose BARC selected five colleges from Mumbai region in which one is ours. Several mini research projects were initiated involving students from F.Y.J.C. to T.Y.B.Sc
  - Through NGO Hariyali, HOPE Nature Trust, environment related activities are done throughout the year. The activities are tree plantation, Rainwater harvesting, Water recycling, and lecture, exhibition related to environment. Our College has very active participation in all these activities.
  - Principal Dr. (Ms) M. K. Pejaver, Dr. (Ms) Poonam Kurve, our research students Ms. Sampada Tadphale, Mr. Amol Patwardhan have written and photographed script on butterflies for a calender published by Hariyali, NGO. Hariyali utilizes the funds generated by this project for the conservation of nature and water.
  - Our T.Y.B.Sc. Zoology students participated in environmental activity "Nisargmela" organized by NGO Enviro Vigil, Thane.
  - N.C.C. girls participated in Public awareness rally organized by Hariyali, NGO from Thane to stop immersion of Ganapati idols and non-degradable material into the lakes of Thane City and save them from getting polluted.
  - Linkage is developed with 'Akshara' NGO for functioning of various activities of 'Women's development cell'.
  - Students have worked on the village water-sampling project under "Jidnyasa Trust" an NGO.

**Linkage is developed with organizations like Enviro-Vigil, Hariyali, HOPE working in environment related issues.**

**Q. 41 Any other relevant information the institution wishes to add:**

**Ans: Our results for the academic year 2003-2004 are as follows:**

F.Y.B.Sc. Results	76.42 %
S.Y.B.Sc. Results	95.94 %
T.Y.B.Sc. Results	92.03 %
F.Y.B.Sc. (I.T.) Results	100 %
S.Y.B.Sc. (I.T.) Results	100 %
T.Y.B.Sc. (I.T.) Results	78.57 %

During the current academic year 2004 – 2005, our staff members and research students have published **Twelve** research papers in various scientific research journals.

**Principal Dr. (Ms.) M.K. Pejaver ( Total 3 ) :**

Sr. No.	Name of the Paper	Reference
1.	'Crustacean zooplankton of Lake Masunda, Thane.'	Journal of Aquatic Biology, Vol. 19 (1) June 2004
2.	'Physiochemical parameters of two quarry lakes near Thane city.'	Journal of Aquatic Biology, Vol. 19 (1) June 2004.
3.	Butterflies of B. N. Bhandodkar College campus, Thane, Maharashtra Jointly with Dr. (Ms.) P. N. Kurve	Insect Environment, Vol. 10 (3) 2004

**Dr. R. P. Athalye and Dr. (Ms.) P. N. Kurve ( Total 1 ):**

Sr. No.	Name of the Paper	Reference
1.	'Comparative study of abiotic and biotic components of a aquaculture pond and its adjacent Thane Creek area, Maharashtra, India.'	Journal of Aquatic Biology. 19 (Vol.1) 2004.

**Dr. R. P. Athalye and Goldin Quadros ( Total 1 ):**

Sr. No.	Name of the Paper	Reference
1.	'Deterioration of Thane creek'	National seminar on Pollution of water bodies in Urban area (Case study of Thane City)' at VPM's polytechnic held on August 08, 2004.

**Dr. (Ms.) M.S. Mulgaonkar ( Head, Botany Department; Total 3 ) :**

Sr. No.	Name of the Paper	Reference
1.	"Some observations on the pollinia of three species of corticolous Orchid-Aerides under SEM"	Indian Journal of applied and Pure Biology Vol. XX No.1 2004.
2.	"Pollen analysis of some species of genus- Aerides Lour from Maharashtra"	Accepted in the International Journal of Mendel. 2004.

3.	"Palynological observations of some corticolous orchids from Maharashtra under SEM."	Paper accepted for publication in the volume 5. 2005 International Journal of Phytotaxonomy
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**Dr.( Ms.) M. Saha ( Total 2 ) :**

Sr. No.	Name of the Paper	Reference
1.	'Synthetic seeds development in different varieties of carica papaya L.'	Journal of Tissue Research Vol.1. (4) 2004.
2.	'Multiple shoots from axillary bud explants in four dioecious varieties of carica papaya L.'	Journal of Tissue Research Vol.1.( 4) 2004.

**Dr. M. V. Ratnam ( Total 2 )**

Sr. No.	Name of the Paper	Reference
1.	"Excess volumes of binary liquid mixtures containing methyl butyrate with bromobenzene, chlorobenzene and nitrobenzene at 303K, 308K and 313K."	Indian Journal of Chemical Technology, entitled, Vol.11, July 2004 pp566-530.
2.	"Viscosity, Density and refractive index of Binary Liquid mixture of some Ester and Hydrocarbons at 303.15 and 313.15 K".	American Journal of Chemical and Engineering Data

**Dr A. N. Bedekar ( Total 1 )**

Sr. No.	Name of the Paper	Reference
1.	"Study of 4-hydroxy isoleucine as a marker compound in standardization of fenugreek extracts".	Presented at National Conference held at Delhi between December 23, 2004 to December 27, 2004 entitled, "Study of 4-hydroxy isoleucine as a marker compound in standardization of fenugreek extracts".

**Dr. (Ms.) A. P. Goswami ( Total 4)**

Sr. No.	Name of the Paper	Reference
1.	"Chemistry-Biology Interface: Synergistic New Frontier"	Presented at International Conference "Chemistry-Biology Interface: Synergistic New Frontier" held at New Delhi between November 21 to 26, 2004, Vidyan Bhavan.
2.	Separation, purification of monophenol monooxygenase and o-diphenol oxidase from Brinjal.	Paper was selected for, "ethnotherapeutics and modern drug development one day symposium in honors of Prof. Sukhdev, FNA on 25 <sup>th</sup> Nov.04. The same paper was selected for serial publication, "Recent Progress in Medicinal Plants".
3.	Effect of herbicide on nutritional values of wheat plant"	Presented two papers at national conference on Nutrition and health A biotechnological approach, held at BNB college of Science, Thane on December 12 & 13, 2004.
4	Study of monophenol monooxygenase and o-diphenol oxidase from onion leaves.	

**Our teachers participated in various seminars / workshops / conferences.**

**Department of Zoology****Principal Dr. ( Ms.) M. K. Pejaver :**

- Worked as Jt. Coordinator for workshop in Zoology on T.Y.B.Sc. Revised Syllabus organized by Board of Studies in Zoology at Mithibai College on 22<sup>nd</sup> Aug 04.
- Worked as organizing committee member of the National Seminar on 'Pollution of water bodies in Urban area (Case study of Thane City)' at VPM's polytechnic held on 8<sup>th</sup> Aug.04.
- Participated in the Two days NAAC sponsored National Seminar cum Workshop on " Improving Quality of Teaching and Learning in the Classroom" held on March 22, 23, 2004 at Mahatma Gandhi Memorial College, Udupi, Karnataka.
- Participated in one day Seminar on "Quality Enhancement Initiatives" on April 03, 2004 organized by Ghanshyamdas Saraf Girls College of Arts and Commerce, Malad and University of Mumbai Principal's Association.

- Participated in workshop of Principals and members of the trust on May 29, 2004 organized by University of Mumbai Principals Association and Pragati College of Arts and Commerce, Dombivli.

**Dr. R. P. Athalye:**

- Attended a National seminar on Pollution of water bodies in Urban area (Case study of Thane City)' at VPM's polytechnic held on August 08, 2004. A paper titled 'Deterioration of Thane creek' – R.P. Athalye and Goldin Quadros has been published in the proceedings. Goldin Quadros presented the paper.

**Dr. (Ms) V. D. Manjramkar**

- Attended a workshop on 'Women's development cell' organized by 'Akshara' NGO at Dadar for functioning of various activities of Cell.
- Attended one day workshop organized by Air Sqn. Defence for recruitment in Air Force at Kelkar-Vaze College, Mulund on October 08, 2004.
- Attended N.C.C. Summer Camp at JNPT, Uran from June 07, 2004 to June 18, 2004 where she delivered a lecture on Woman Health and Hygiene.

**Prof. Kiran Pariya:**

- Attended a National Seminar on Biotechnology and Bioinformatics at C. K. Thakur College of Arts, Science and Commerce, New Panvel on November 26, 27, 2004.

**Dr. ( Ms.) N. N. Patil, Dr. R.P. Athalye, Dr. ( Ms.) S.V. Mahajan, Prof. S.D. Rathod, Dr. (Ms.) V.D. Manjramkar, Dr. ( Ms.) P.N. Kurve , Prof. Pariya** attended a Workshop in Zoology on T.Y. B.Sc. Revised Syllabus organized by Board of Studies in Zoology at Mithibai College, VileParle.

**Dr. (Ms.) N.N. Patil, Dr. R.P. Athalye and Prof. S.D. Rathod** attended a National Seminar on "Pollution of water bodies in Urban area ( Case study of Thane City)" at VPM's Polytechnic Thane, held on 8<sup>th</sup> Aug.04

**Dr. ( Ms.) N. N. Patil and Dr. ( Ms.) P.N. Kurve** attended a seminar on Health and Hygiene organized by Jhunjunwalla College, Ghatkoper on September 04, 2004.

**Department of Mathematics**

**Prof. R. S. Poddar ( Head, Mathematics Department)**

- Attended Muzumdar commemorative lecture on February 15, 2005 by Prof. M. V. Nori of University of Chicago, USA, on "Number Theory and Geometry" at the Dept of Maths, University of Mumbai.



- Participated in a two days state level seminar on “India- The Global Brand ” sponsored by UGC on August 18 & 19, 2004 at H. R. College of Commerce & Economics, Churchgate, Mumbai in association with Indian Merchants’ chamber (IMC).
- **Prof. R. S. Poddar** and **Prof. (Ms.) S. N. Joglekar** participated in the “Problem coordinators camp for Mathematics Olympiads” held at Department of Mathematics, Goa University, Goa during January 24 to 27, 2005.

#### **Prof Ms. S.N.Joglekar**

- Has attended one day seminar on powerpoint presentation on use of Graph Theory and Design on Computers, held at Royal College, Mira Road along with five students of T.Y.B.Sc. Mathematics on November 25, 2004
- With **Prof. Ms. M. T. Wankhede** participated in the Workshop held on September 01, 2004 at Bhavan’s college, Mumbai on certain new topics in TYBSc Mathematics syllabus.

**Prof(Ms.) M.T. Wankhede** has attended Refresher Course in Mathematics from February 28, 2005 to March 21, 2005 at Staff Academy College, University of Mumbai and secured ‘A’ Grade.

**Prof. S.S. Patwardhan** has attended one day workshop on some new topics in TYBSc Maths syllabus and on proposed revision in the syllabus of TYBSc. computers Programming and Systems Analysis held at Vaze college on December 01, 2004 by Bombay Mathematical Colloquium.

#### **Department of Botany**

**Dr. (Ms.) M.S. Mulgaonkar** ( Head, Botany Department ) :

- Attended a workshop on Revised syllabus of T.Y. B.Sc. Botany organized by the Board of Studies in Botany, Mumbai University on 12-06-2004.
- Attended a workshop on revised syllabus of Horticulture. T.Y. B.Sc. organized by Board of studies in Botany, Mumbai University on 07-08-2004.
- Attended a workshop on Revised syllabus of T.Y. B.Sc. Botany horticulture organized by Board of Studies in Botany at D.G.Ruparel College.
- Worked in organizing committee for National Seminar on medicinal plants organized by University of Mumbai and K. V. Pendharkar College, Dombivli.

**Dr. N. S. Tekale :**

- Attended a one-day T.Y.B.Sc. new syllabus Workshop, at K.J. Somaiya College of Science. 12.06.2004.
- Delivered a talk in VPM organized seminar “Graduate what next ” at VPM campus. 18.07.2004.
- Attended a workshop on Revised syllabus of T.Y. B.Sc. Botany horticulture organized by Board of Studies in Botany at D.G.Ruparel College.
- Attended National Seminar on Pollution on Water Bodies at VPM, Polytechnic as a member of advisory committee. Also presented paper titled “ Idol immersion in Masunda Lake, Impact of environmental awareness”.
- Has worked as Organizing Secretary for National Conference on Human Health and Nutrition : A biotechnological Approach“ organized by Botany Department.

#### **Dr. M. J. Kolet**

- Attended and actively participated in workshop for T.Y.B.Sc. new syllabus in Botany organized by Board of studies in Botany, Univ. of Mumbai on 12.06.2004.
- He was Instrumental in arranging N.C.C. Annual Camp in our college and actively participates in the same, looking after liaison work, press coverage, media persons and success of the camp. 24.05.2004 to 04 .06.2004.
- Attended National Seminar on Pollution on Water Bodies at VPM, Polytechnic
- Attended a workshop on Revised syllabus of T.Y. B.Sc. Botany horticulture organized by Board of Studies in Botany at D.G.Ruparel College.

#### **Dr. (Ms.) M. Saha**

- Attended the workshop on Revised Syllabus of T.Y. B.Sc. Botany organized by the board of studies in Botany. On 12.06.2004.
- Presented Poster “ Bacterial decontamination during in vitro culture of Carica papaya L. at National Conference on “Human Health and Nutrition – A Biotechnological Approach” organized by B. N. Bandodkar College of Science, Thane.

#### **Dr. V. M. Jamdhade**

- Attended a Revised new T.Y.B.Sc. Syllabus conducted at Somaya College on 12.06.2004.

#### **Department of Chemistry**

##### **Prof (Ms.) M. P. Akolkar, Vice Principal**

- 1) Attended one day national seminar on “Pollution of water bodies in Urban Area” on

August 08, 2004. at VPM Polytechnic, Thane.

- 1) Attended seminar on "Challenges in higher education at Wilson College on January 02, 03, 2005.
- 2) Attended and gave a presentation in a two day workshop organized Birla College, Kalyan on "Best Practices in higher education" on January 02, 03, 2005.
- 4) Attended one-day seminar on Indian Mathematics held by Physics Department on December 05, 2004.
- 5) Attended meetings of BC Cell on behalf of college meetings, organized by Zilla Parishad.

**Prof. S. G. Medhekar** (Head, Chemistry Department)

- Attended one-day national seminar on "Pollution of water bodies in Urban Area" on 08-08-2004. at VPM Polytechnic, Thane.
- Invited by KMC College Khopoli as a resource person on January 08, 2005 workshop conducted by the college for the T.Y.B.Sc. students of **Raigad District**.
- Actively participated in the discussion on the T.Y.B.Sc. Practicals according to revised syllabus at Ruia and Ruparel College, in the capacity as a chairman for the said examination, of Mumbai University.

**Prof. V.M. Phegade and Prof. P.G.Bamane**

Attended a workshop on Revised syllabus of T.Y. B.Sc. Chemistry organised by the C.K. Takur College Panvel between June 17, 2004 and June 19, 2004.

**Prof V.S. Burkule**

- 1) Attended one day national seminar on "Pollution of water bodies in Urban Area" on August 08, 2004. at VPM Polytechnic, Thane.
- 2) Attended a half-day symposium on September 01, 2004 at Vaze College, Mulund. The topic of seminar was - Topic in physical chemistry, NMR-molecules of medicine, Biotransformation in industry.
- 3) Invited by KMC College Khopoli as a resource person on January 05, 2005 workshop connected by the college for the TYBSc students of **Raigad District**.

**Dr. M. V. Ratnam**

- 1) Successfully guided Shri. Rajeev Singh (April 2004) for M. Sc. Research Degree in Chemistry (Bombay University).
- 2) Recognized as Ph. D guide by University with effect from May 2004.

**Dr A. N. Bedekar**

Recognized as Ph. D Guide by University with effect from May 2004.

**Prof. P. P. Karnik**

Attended Centennial Conference of Rotary club of Thane 2004.

**Department of Physics****Dr. M. N. Nyayate**

- Attended two-day workshop on T.Y.B.Sc. Physics syllabus as a resource person at Khalsa College, Mumbai conducted in collaboration with Board of Studies in Physics, University of Mumbai on August 18, 2004.
- Attended one-day state level workshop on B.Sc. Physics Practicals (UGC Syllabus) conducted by Deogiri College of Dr. Babasaheb Ambedkar Marathvada University at Aurangabad on August 19, 2004.

**Prof. N. D. Mandge**

1. Worked as convener for the seminar on "Indian mathematics" jointly organized by Department of Physics, B. N. Bandodkar college of Science. And Marathi Vidnyan Parishad, Thane Vibhag Date December 5, 2005.
2. Worked as Secretary of Marathi Vidnyan Parishad Thane Vibhag, Organization of " Thane District Marathi Vidnyan Sammelan "(Conference) along with Sonopant Dandekar College, Palghar.
3. Participation in "Amateur Astronomer's meet 2005" at Science Centre, Goa on January 29 & 30, 2005 organized by Marathi Vidyan Parishad, Goa Vibhag, Association of Friends of Astronomy, Goa & Goa Vidya Prasarak Mandal, Panda.

**Prof. Ms. S. S. Meshram and Prof. Ms. U. B. Gokhe**

- Attended two day workshop for T.Y.B.Sc. Physics, Revised Syllabus for theory and practical at Khalsa College, Mumbai. The workshop was conducted in collaboration with Board of Studies in Physics, University of Mumbai.

**Department of Statistics**

**Prof. A. P. Patil ( Head, Statistics Department ) and Prof. Ms. K. D. Phal** attended lecture series by Dr. Y. S. Sathe on Financial Economics arranged by Department of Statistics, University of Mumbai

**Prof. (Ms) Golba and Prof. (Ms) Phatak** attended Refresher Course in Statistics at Staff Academy College, University of Mumbai from February 28, 2005 to March 21, 2005 and secured 'A' Grade..

## **Department of Information Technology**

### **Mr. Abhijeet Kale ( Prof. In Charge )**

- 1) Attended International Conference “LinuxAsia2005” organized by EFY (Electronics for You) at Habitat Centre, New Delhi from February 09, 2005 to February 11, 2005.
- 2) Attended International Conference on “Information Management in a Knowledge Society” at Grand Hyatt, Mumbai during February 21, 2005 to February 24, 2005.
- 3) Attended National Conference on “Human Health and Nutrition – A Biotechnological Approach” organized by B. N. Bandodkar College of Science, Thane on December 12 & 13 2004.
- 4) Participated in One day seminar on “Indian Mathematics” organized by Department of Physics, B. N. Bandodkar College of Science, Thane and Marathi Vidnyan Parishad, Thane Vibhag on December 05, 2004.
- 5) Participated in the Two days Orientation Programme on “WINDOWS PROGRAMMING, VC++, eMVC++” organized by Department of Information Technology, Vaze College on October 09 & 10, 2004.
- 6) Participated in the two day workshop on M. Sc. (Computer Science) and M. Sc. (Information Technology) Part I practicals organized by Department of Computer Science, R. J. College, Ghatkopar held on September 29 & 30, 2004.

### **Prof. Ms. A. D. Gangal**

- 1) Attended one day seminar on “Information, Communication Technologies in Research Methodology” on February 05, 2005.
  - **Department of Information Technology** is also working on “E-Book” project. CDAC, Andheri helped department for this project by providing Marathi Unicode “Janamarathi”.
  - has initiated another project “Digital Library” which is currently in discussion mode.
  - has developed the programme for calculating attendance of the students for lectures.

## **Library**

### **Mr. M. S. Pathak ( Librarian )**

- Was invited as Guest Lecturer for the seminar arranged by Director of Public Libraries of Maharashtra State on October 07, 2004 on “Revision of syllabus for the certificate course examination”.

- Presented paper on “Book registration act: present scenario” in a state level workshop organized by the library of Swami Ramanandtirth Marathwada University between October 28, 2004 to October 30, 2004.
- Has published a book named “Arogya Vichar”.

### ***Departmental Clubs***

Our college runs the specific clubs of every Department from last 2 years. These clubs help to create interest & liking about the specific subject among the students. We also can impart additional knowledge about the subject, can link them to current situations can make the students aware about the social problems through the activities of these Departmental clubs.

From this year we have moulded the clubs into specific official formats as we have selected the office bearers like Secretary, Jt. Secretary etc. for every club & one teacher is given a charge of that club. We also have named them with subject related meaningful names & thus we have 7 clubs functioning in our college namely **URJA** – Chemistry club, **Sankhya** – Statistic club, **Siddhant** – Mathematics club, **Srushti** – Botany club, **Green Force Nature Club** - Zoology club & Physics club and IT Club. As ours is the single faculty college ie Science faculty we felt the need of literature clubs also hence we have also started ‘Sahitya Sahavas’ run through Foundation Course Department & ‘Friends of Library’ through the Library. Thus in total we have 9 clubs. We have also formed a group called ‘Science Square’ through which the students participated in various projects.

We have performed various activities through these clubs, like arranging the lectures, exhibitions, trails, project presentation etc.

**‘Sahitya Sahavas’** has arranged two major events this year. It had organized a programme in association with Granthali on ‘kavi Grace’ who was a great poet. For the poets among the students Sahitya Sahavas arranged a second programme in which many students participated & read their poems. A group of students was also send to participate in a seminar on ‘Ancient Indian Films’

### ***Library Club – Friends of Library***

- Organized a talk on METADATA by Smt. Vedavati Habbu from University of Mumbai.
- Mr. Vasantarao Save, a senior professional in the library field was felicitated on completion of his 75 years at the hands of Mr. Jayant Moghe a senior retired librarian.
- organized an exhibition of important books and classics in Science College Library on August 26, 27, 2004.

➤ The Journalism department arranged **five guest lectures**.

- Ms. Scheta Karmarkar from E-TV and Zee- TV delivered lecture on “Electronic Media and Journalism”
- Our past student and professional photographer Mr. Kedar Bhat delivered talk on Photo Journalism.
- Our past student Mr. Ganesh Solanki guided our student on the topic Press Law. Editor of local news papers Mr. Milind Ballal ( Thane Vaibhav ) and Mr. Vijay Joshi ( Sanmitra ) shared their experience with our student in independent lectures.

**Zoology Club - Green Force Nature club:**

The club activities started in July 2004. Total 71 students of classes T.Y. B. Sc., S.Y.B.Sc.and F.Y.B.Sc. Joined the club. Following various activities were organized by the club members.

**Activities:**

- Lecture by Dr. M.U. Borkar on ‘Ecology of Mangroves’ was organized on 6 Aug. 2004
- CD show on Snakes was arranged on August 28, 2004.

- **Seminars on environment journal “ Down to Earth “**

Each student member was given a Down to Earth issue and was asked to present a review of important environment news. Such seminars were held on every Wednesday. 18 students participated in these seminars.

**Group discussions-**

The students were given topics for group discussion. Such discussions were held on every Saturday. The topics included 1) Leopard problem in Sanjay Gandhi National Park. 2) Solid waste disposal 3) Dinosaurs 4) Extinct animals 5) Water conservation.

**Exhibition – Jaiva srushti.**

A grand exhibition Jaiva srushti was arranged under guidance of Dr. R. P. Athalye on 15 and 16 Sept. 04 inaugurated by Mr. Hemkant Gupte, member of HOPE. It was based on various topics such as Precipitation of water from fog, DNA computers, Endangered and extinct animals, study of types of animal hair, study report on effect of light colors on fish growth, vermicompost, craft and gears in fishery, DNA fingerprinting, cloning, micro technique, effect of coca-cola on health,

Biocampost, Interesting animals out of syllabus, insect study methods, mangroves, snake show CD etc.

The main aim of the exhibition was to make the students learn about the topics that are not in syllabus but are connected to the subject and to develop ability to present through charts and models.

The exhibition was well responded by college students, school children and dignitaries from Thane city.

- Inaugural lecture on endangered mammals of world, WWF and Nature Club activities by Dr. Goldin Quadros, Educational Officer of WWF Mumbai on July 15, 2004.
- Lecture by Dr. M. U. Borkar on "Ecology of Mangroves" was organized on August 06, 2004.

### **Other activities-**

Apart from the above activities, the students also displayed wallpapers on topics related to environment.

### **College school complex**

Under this scheme a group of 40 students accompanied by two staff members from A.K.Joshi English medium school Visited college campus on July 31, 2004 for nature study. Dr. Mulgaonkar, Dr. Jamdade, Dr.. Borkar, Dr. Kurve , Mr. Amol Patwardhan and T.Y.B.Sc. Botany students guided them. Students observed and studied the Medicinal plants, plants included in their syllabus, Butterflies and birds from college campus. They prepared a report of their observation.

Through this scheme, Zoology Department offered help to various schools to complete their science projects for the children science congress. This included identification of plants and animals and analysis of water samples. Following schools took benefits of this facility.

- A. K. Joshi School. Thane
- Saraswathi English Medium School, Thane.
- Sahakar school Kalawa.

A practical session was arranged for students from schools in Thane city who cleared Bhabha Jr. and Sr. scientist examination on January 08, 2004.

An oral (viva) session was arranged by college for students who pass theory as well as practicals successfully. These activities helped the students as two students secured gold medals in the said examination.



**Science Square activities:.** Since, Year 2004-05 is declared as a year of scientific awareness by Science and Technology Department of Government of India to inculcate research habit among the students, we have formulated this group namely **Science Square**.

Our college is selected along with four other colleges from Mumbai for various projects in the field of Science.

A lecture of Dr. Sharad Kale, an eminent scientist from BARC on “Inculcation of Scientific Spirit” was arranged. Another lecture of Raman Magsaysay award winner Dr. Sandeep Pandey was arranged. The topic was to work for Vishvashanti and to make use of science for the betterment of the mankind.

Several mini research projects were initiated through this scheme involving students from F.Y.J.C. to T.Y.B.Sc. of our college. Following projects were undertaken: in collaboration with Jidnyasa, NGO from Thane and Thane Municipal corporation.

- T.Y.B.Sc. Zoology students worked 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. Phytoplankton and zooplankton analysis had been done in Zoology laboratory of our college. Heavy metals were analyzed with the help of B.A.R.C. They successfully completed the summer project and prepared a report under the guidance of Dr. R. P. Athalye. They were invited for presentation of project work at The Town hall Thane and were felicitated by Municipal commissioner of Thane on November 29, 2004. Principal Dr. (Ms.) M. K. Pejaver and Dr. (Ms.) Poonam Kurve attended this function and encouraged the students.
- Analysis of drinking water from a village Devbandh (Javhar Taluka).
- Analysis of mud for nutrients from Yeoor and college campus.
- Fractionation of edible oil to know adulteration.
- To determine pesticides from products available in the local market.
- To determine the difference in nutrition from vegetables from farm and from railway line.

S.Y.B.Sc. Chemistry students under guidance of Dr. Ms. Anita Goswami completed for minor projects.

- Effect of herbicide ( glyphosate) on nutritional values of wheat.
- Studies on enzymes : monophenol monooxygenase and o-diphenoloxidase for onion leaves.
- Weed Management.
- Physiochemical properties of soil in relation to plant growth.

Students presented these projects at “Srujan” at CHM College, Ulhasnagar on January 10, 11, 2005 and at National Conference on Nutrition and Human Health : A Biotechnological Approach conducted by our college.

Students were awarded certificates from Nehru Science Centre.

**“Jaiva srushti” exhibition** was organized through Zoology Club and Green Force Nature club.

- “Yoga club” organized valedictory function on 10<sup>th</sup> Sept.04 for 70 students who completed yoga training successfully. Shri Kundargi of Ambica Yoga Kutir was the chief guest. The students were given certificate on completion of the training.

#### **Mathematics Club - Siddhant**

- The activities of Mathematics Club of our college was inaugurated by Dr. G. D. Padukone, former reader in Mathematics at St. Xavier College, Mumbai and present visiting faculty at K.C. College, Mumbai on September 04, 2004. He also delivered a talk on “Some interesting Problems in Mathematics”. Students and teachers in large number attended and made programme a grand success.

#### **IT Department / Club**

IT course is completely market oriented. Software those are currently popular in market like VB-6, Database administration etc. are taught. The first batch of B.Sc.(I.T.) successfully completed their course this year. In the final the students are required to complete the project. Our students have got the project in various organizations as follows:

1. Bombay Dyeing Ltd
2. Zenta S/W
3. Jet Airways
4. Aptech Computer Education
5. Directorate of Vocation, Education & Training
6. Liberty Oil Mills

First batch students of TYBSc (IT) (2004) have got placements in many organizations. Some of them are listed below.

1. Wipro Technologies Ltd.
2. Lawren Infotech
3. Patni Computers Ltd.

- **A lecture by Mr. S. P. Chavan (V. P. Technology – Zee Network)** was arranged on July 17, 2004. The topic was Current trends in Telecommunications.

### **Statistics Club - *Sankhya***

The inauguration of the activities of Statistics Club 'Sankhya' for the academic year 2004 – 2005 was arranged on Wednesday September 15, 2004. Dr. R. H. Shenoy, Professor, Department of Statistics, University of Mumbai graced the function. In his speech he effectively discussed "Applications and Scope of Statistics".

On November 26, 2004 Miss. Seema Mishra, T.Y.B.Sc. student gave a seminar on "Estimation of population mean for normal population using Bayesian Theory for T.Y.B.Sc. (Statistics) students.

### **Chemistry Club - *URJA***

Vision of the chemistry club is it develops students of chemistry into programmatic chemistry who can meet demands of the industry.

With this vision students enrolled as members of the chemistry club.

Dr.S.D, Samant, of UDCT, inaugurated activities of "URJA" chemistry club of the year of 2004-2005. He delivered a lecturer on, "Recent trends in organic synthesis." Deepak Dashrath Dicholkar and Suyog Madhv Marathe were selected as Joint secretaries of the club.

Validation is a buzz in industry today therefore the lecture on validation of "Analytical Methods" by Dr.Padmanabhan was arranged for the members of the club on 15<sup>th</sup> Sept.04.

To impress upon the students, Mrs.Pallavi Phojadar on 8th Decm.04 delivered a lecturer n scope of common effluent treatment plant the important of pollution control.

Site Visit to common effluent treatment plant of THANE BELAPUR INDUSTRIES ASSOCIATION visit to chemical equipment a manufacturing TRANSFER SYSTEMS was arranged on 8<sup>th</sup> decem.04 in which 38 students participated.

### **Botany Club - *Srushti***

- Botany club arranged a 3 day exhibition as an inaugural activity of the club.
- The club also undertook educational informative activity of explaining flora of the campus to the students visiting from nearby Secondary and Higher Secondary Schools.
- The plants in the campus were identified and members displayed nameplates on August 15, 2004.
- The club members have also worked on the village water-sampling project under "Jidnyasa Trust" an NGO.

- Organized the lecture of Dr. Sanjay Joshi, active member of an organization “Enviro-Vigil” on the topic of “ Biomedical Waste Management” on September 23, 2004.
- The members visited common Bio-Medical Waste Treatment facility set up by Enviro-Vigil in the premises of Shivaji Hospital, Kalwa. Students were benefited and highly appreciated the work of disposal of biomedical waste.

### **Physics Club**

- Inaugural lecture were held on August 17, 2004. Prof. Chintamani Deshmukh, Head, Department of Physics, VJTI Mumbai delivered lecture on “Roll of Indian Scientist in Development of Science and Technology”

### **Various Committees**

#### **Trekking / Hiking Committee**

Hiking committee of B.N.Bandodkar College arranged the hike to Kothaligad (Peth fort) on 1<sup>st</sup> Aug.04 Prof. Mrs. Karbhari, Mr. P. S. Mali, Mr.Sunil Bhusaraaccompanied the students on the hike. All the students enjoyed the danger of hiking in heavy rains.

#### **Women’s Development Cell**

Women’s Development Cell of our college started functioning from 26<sup>th</sup>Aug. 2004 with a meeting for discussion of various issues on the topics that should be undertaken for delivering couple of lectures & arranging workshop.

Women’s Development Cell & NSS unit along with ‘Akshara’ NGO from Mumbai conducted a one-day workshop on Gender Issue. Women’s Development Cell also organized essay competitions.

#### **Yoga Club**

Yoga Club, every year organizes yoga training for students & staff of V.P.M. institutes, with the support from Shri. Ambika Yaga Kutir, Thane.

#### **Employment Cell**

Activities conducted under Employment Cell: -

1. Campus interview for the post of “Marketing executive” by Uptime Technology was arranged on April 24, 2004 at 10.00 am 30 students appeared for the interview. Among those 5 students got selected.
2. Seminar on Industrial Guidance by “Shamrock Academy” was arranged on April 29, 04 at 12.00 am T.Y.B.Sc. attended the lecture.
3. Written Examination for the post of “Software Programmer” by Uptime Technology was arranged on May 29, 04 at 11.00 am. 32 students appeared for the test. Among those 5 students got selected.

4. Lecture on carrier guidance was arranged on June 26, 2004 at 3.00pm for TYBSc students. Our pass student Mr. Nasir Abdul & Mr. Girish Prabhu delivered lecture. 55 students from TYBSc attended the lecture.
5. Campus interview by Meger Vitabiotics was arranged on June 26, 2004 between 9am to 12pm. 18 students appeared for the interview. Amongst these students got selected as trainees in registration department.
6. Campus interview for the post of "Marketing executive" was arranged on July 10, 2004 at 11.00 am
7. Information regarding various job opportunities are regularly put up on the notice board.

#### **Calendar committee:**

Calendar committee prepared calendar for the year 2004-05 under chairperson Dr. (Ms) N. N. Patil in the Month of April 2004. (Copy attached) Following events were taken in to consideration.

#### **Academic events.-**

- Dates of college reopening after every vacation.
- No. of teaching days and No. of holidays.
- End of I<sup>st</sup> and II<sup>nd</sup> terms.
- Dates of I<sup>st</sup> Term Examination of F.Y.B.Sc., S.Y.B.Sc., T.Y.B.Sc., F.Y.J.C. & S.Y.J.C.
- Dates of II<sup>nd</sup> Term Examination of F.Y.B.Sc., S.Y.B.Sc. & T.Y.B.Sc., F.Y.J.C. & S.Y.J.C.
- Dates of T.Y.B.Sc. Preliminary Examination.
- Dates of A.T.K.T. & Additional Examinations.
- Dates of Annual Results of F.Y.B.Sc., S.Y.B.Sc. F.Y.J.C.
- Dates for admission of S.Y.B.Sc. & T.Y.B.Sc. & S.Y.J.C.
- Dates for Conferences & Work shops.

#### **Extracurricular events-**

- Club activities of all departments
- Annual social days.
- Sport days.

#### **Other Committee meetings-**

- Principal with H.O.D. meetings
- IQAC meeting
- Defaulter student's parent meeting.
- Principal-Management meeting.

- Library committee meeting.
- Student council meeting.

### **Magazine Committee:**

We have separate committee for magazine & wallpaper. In the entire year we publish 4 wallpapers. Similarly we arrange many competitions through this committee as Cartoon Handwriting, Front page designing competition for which we got very good response. Certain program like book review, what is your opinion was also conducted through this committee.

At the end of year we have published a very good magazine with reports of all committees, many articles, poems in Marathi, Hindi as well as English. The photographs of all events & winners.

- Organized a programme of a dialogue with the artists performed in Marathi film "Bhiti ... Ek Satya". Mr. Viju Mane, our past student and co-director of the film interviewed the famous artists Mr. Avinash Narkar, Ms. Aishwarya Narkar (our past student), Mr. Shekhar Phadke, Mr. Subhash Phadke and Mr. Abhijeet Chavan.

### **Excursion:**

Through excursions students are able to study flora and fauna in their natural habitat. They also become familiar with different types of climates and ecosystems. Excursion develops among the students the feeling of togetherness, obedience, discipline, and ability to adjust and share and in general broaden their vision. It helps to develop healthy and intimate relation between the student and teacher. The students come to know about the diversity in our country and different life styles of countrymen, important movements and national heritage, which makes them proud of our nationality. At the same time they realize the problems faced by the countrymen.

Biological sciences like Botany and Zoology Departments regularly take the students for excursion. This year our college has taken the students for excursion at various places like follows:

#### **Botanical Excursion:**

- A botanical excursion of S.Y.B.Sc. and T.Y.B.Sc. Botany students were conducted at Neral to see the Flora and Fauna separately.
- A T.Y.B.Sc. Botanical excursion was conducted at Goregaon on December 18, 2004.
- T.Y.B.Sc. Botany students were taken on long excursion at Koimbatoor, Kodai Canal and Madurai from December 26, 2004 to January 02, 2005.

#### **Zoology Excursion:**

- Dr. ( Ms.) N.N. Patil, Prof. S.D. Rathod, Dr. P.N. Kurve accompanied T.Y. B. Sc. Students at Panavel Fish Farm on 25<sup>th</sup> Aug.04.
- Dr. R. P. Athalye, Prof. S. D. Rathod, Dr. Ms. Manjramkar and Dr. Ms. Kurve accompanied F.Y.B.Sc. students at Palasdari on September 06, 2004. Students observed insects, birds and butterflies of the area.
- Principal Dr. Ms. M. K. Pejaver, Dr. Ms. N. N. Patil, Prof. Kiran Pariya and Dr. Ms. Kurve accompanied S.Y.B.Sc. students at Satpati on October 11, 2004. students observed fish fauna, fish landing and boat building workshop.
- T.Y.B.Sc. students visited Ferry Warfe ( Baucha Dhakka) to observe fish fauna and fish landing and Prince of Wales Museum to observe B.N.H.S. Gallery of Wild Life on December 11, 2004. Prof. Rathod and Dr. Ms. Kurve guided them during their visit.
- Zoology department arranged a long excursion for T.Y.B.Sc. students at Jim Corbette, Rajaji National Park and Nainital Zoo during Christmas Vacation which is a part of their syllabus. Principal Dr. Ms. Pejaver and Prof. Pariya accompanied them. Students observed flora, fauna and wild life of the region.

#### **Vidya Prasarak Mandal:**

Our management, Vidya Prasarak Mandal, also encourages the staff and students.

- This year on Teachers day, 26 teachers from our degree college and 2 teachers from our junior college were felicitated along with other teachers from other institutions run by our management.
- On August 01, 2004, our management celebrated 68<sup>th</sup> anniversary in which all the teachers, non-teaching staff and students from our college participated where each institute run by our management who completed 25 years were donated separate flags and colors.
- On the day of “Narali Purnima” we celebrated “Sanskrit Day” along with sister institution of our management in which Chairman, Dr. Vijay Bedekar delivered a speech on “Study of Sanskrit language and Research Scholars of Sanskrit from European countries in 18<sup>th</sup> century”.

Our college B. N. Bandodkar College of Science, Thane is the leading educational institute run under the management of Vidya Prasarak Mandal, Thane. It is a single faculty college, catering to the need of about 1900 students who want to do their carrier in science.

Being a science college it is always in financial crunch but still to encourage our students to achieve their goals our parent institute gives us full financial support from time to time and hence we could manage to take the big events like National Level Conferences in Zoology and Botany. Understanding the need of such seminars and workshops we will like to continue the practice in other subjects next year.

We will also continue our ongoing projects of Yoga training for students and staff, College School Complex activity. We will continue with mini projects as it helps to develop keen interest in research, develop scientific skill among students.

Our library is well equipped and we have OPAC system installed. In the next academic year we will have all the books with bar codes. Similarly we are planning to have course of Computer Operation for library staff.

Life has become very insecure and the students have to face a lot of competitions for admissions to various courses they desire. Ours being science college, students are continuously under pressure. They have to spend lot of time on college campus and hence are facing strain. To solve these difficulties we have started counseling cell this year but we are planning to have a course for the students related to such stress, strain, peer pressure, sex education etc.

Similarly we have started certain programmes through Women Cell, which we will like to extend further to make the girls bold and self sufficient in some aspects. Our management has already started the expansion of our buildings. We have added a well equipped Information Technology Department last year and Mathematics and Statistics Department this year. Next year our infrastructural development will include a well planned library, some class rooms and very well set computer lab.

Our management is very supportive and has many innovative ideas in mind. Hence any new idea which will help the staff and the students will be immediately accepted and incorporated by us.

Prof. S. G. Medhekar  
IQAC Coordinator

Dr. (Ms.) M. K. Pejaver  
Chairperson QAC



Following is the list of Eminent personalities visited our college for various purposes.

Sr. No.	Name of the Eminent personality	Designation	Purpose of Visit
1	Mr. Dilip Vaity	Eminent painter and Architect	Invited as Judge for competitions Fine Arts Competition arranged by Cultural association.  He also conducted a fine art workshop where his paintings and various other works were presented in the form of power point show.
2	Dr. S. D. Samant	UDCT, President	Inauguration of Chemistry Club “URJA” activities for the year 2004 – 2005. He also delivered lecture on “Recent trends in Organic Synthesis”
3	Dr. Padmanabhan	Indian Society of Analytical Science	Invited by Chemistry Club “URJA”. He delivered lecture on “Analytical Methods”.
4	Prof. Bhalchandra Naik		Invited by Physics Department for One day seminar on Indian Mathematics. He delivered lecture on Shulabh Sootra and Bakshali Manuscript
5	Prof. S. P. Deshpande		Invited by Physics Department for One day seminar on Indian Mathematics. He delivered lecture on Mathematics of Middle Ages and Mathematician Mr. Kaprekar
6	Mr. Chandrahas Halai		Invited by Physics Department for One day seminar on Indian Mathematics. He delivered lecture on Vedic Mathematics
7	Prof. Mohanrao Apte		Aryabhatta to Bhaskaracharya
8	Prof. Chintamani Deshmikh	Ex-Professor and Head of the Department of Physics, VJTI Mumbai	Invited to inaugurate Physics Club and deliver lecture on Roll of Indian Scientist in Development of Science and Technology
9	Mr. S. P. Chavan	V. P. Technology – Zee Network	Invited by IT Club. He delivered lecture on Current trends in Telecommunications.
10	Ms. Pallavi Phojar	Sr. Scientist, Common effluent treatment plant, Thane Belapur Road	Invited by Chemistry Club “URJA”. She delivered lecture on ‘Scope of common effluent treatment plant –the importance of pollution control’
Sr. No.	Name of the Eminent	Designation	Purpose of Visit

	<b>personality</b>		
11	Dr. Manohar Kodarkar	Scientist from Hyderabad University	Interacted with T.Y. B. Sc. ( Botany & Zoology) on 8 <sup>th</sup> Aug. 04. To inculcate reading habit among students, he donated a book named ‘ Agnipankha’ written by Dr. A.P.J. Abdul Kalam.
12	Dr. Goldin Quadrose	Sr. Officer, WWF Mumbai Branch	Invited by Zoology club. He delivered lecture on Endangered mammals, activities of nature clubs and WWF on July 15, 2004.
13	Dr. Sharad Kale	Scientist from BARC	Invited by Zoology club. He delivered lecture on “Inculcation of Scientific Spirit.”
14	Raman Magsaysay award winner Dr. Sandeep Pandey.		Invited by Zoology club. He appealed our students to work towards Vishvashanti and to make use of science for the betterment of the mankind and not its downfall.
15	Dr. G. D. Padukone	Former reader in Mathematics at St. Xavier College, Mumbai and present visiting faculty at K.C. College, Mumbai	Invited by Mathematics club. He delivered lecture on “Some interesting Problems in Mathematics”.
16	Smt. Vedavati Habbu	Senior Professional in Library of University of Mumbai	Invited by Library Club. She delivered a talk on a talk on METADATA
<b>Sr. No.</b>	<b>Name of the Eminent personality</b>	<b>Designation</b>	<b>Purpose of Visit</b>
17	Mr. Vasantrao Save	EX-Librarian of USIS Library.	Was felicitated on completion of his 75 years at the hands of Mr. Jayant Moghe

			a senior retired librarian.
18	Mr. Jayant Moghe	Ex Librarian of NM College, Andheri	Invited by Library for felicitation of Mr. Vasantao Save.
19	Ms. Scheta Karmarkar	E-TV and Zee- TV	Invited by Journalism Department. Delivered lecture on “Electronic Media and Journalism”
20	Mr. Kedar Bhat	Professional Photographer	Invited by Journalism Department. Delivered talk on Photo Journalism.
21	Mr. Ganesh Solanki		Guided our student on the topic Press Law.
22	Mr. Milind Ballal	Editor, Thane Vaibhav News paper	Invited by Journalism Department. Shared their experience.
23	Mr. Vijay Joshi	Editor, Sanmitra News paper	Invited by Journalism Department. Shared their experience.
24	Prof. Chintamani Deshmukh	Head, Department of Physics, VJTI Mumbai	Invited by Physics Club. Delivered lecture on “Roll of Indian Scientist in Development of Science and Technology”

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