



VIVEKANAND  
EDUCATION  
SOCIETY

**VIVEKANAND EDUCATION SOCIETY'S**

**COLLEGE OF ARTS SCIENCE & COMMERCE**

**CHEMBUR, MUMBAI 400071**

**ANNUAL QUALITY ASSURANCE REPORT**

**2007-08**

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## ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2007-08

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**V.E.S. College of Arts Science & Commerce**  
**Chembur, Mumbai 400071**  
**The Annual Quality Assurance Report (AQAR) of IQAC**  
**2007-08**

**Part A**

**The plan of action chalked out by the IQAC in the beginning of the year towards Quality enhancement and outcome achieved by the end of the year:**

The IQAC team welcomes Dr.(Mrs.) J.K. Phadnis as the new principal of our college, and the chairperson of IQAC. Dr.(Mrs.) Phadnis, who was our vice principal for last several years, took charge as Principal on 1<sup>st</sup> August 2007., when Mrs. J.Das , the ex-principal retired after completion of her term.

The IQAC of VES College completed its fourth academic year in April 2008.

The goal of the I.Q.A.C. in tune with the goal of the institution has been to enhance and to ensure quality in our Educational system. I.Q.A.C. agenda of quality enhancement involves a two way process:

- i) To sustain the quality already achieved and
- ii) To develop new practices for enhancing quality.

The thrust area declared by the NAAC for the academic year 2007-08 was “Promotion of internal Quality Assurance system”. In line with this declaration of NAAC the IQAC of VES college took a decision to form a number of ‘**Quality Circles**’ which will evolve an efficient mechanism to remove road blocks in certain aspects of teaching –learning, research and student support.

The action plan chalked out by the IQAC members of our college in the beginning of the academic year 2007-08 was as follows

1. Following Quality Circles were formed:

- As the medium of instruction in our college is English, a **Language enhancement** Q. C was formed to tackle the problems faced by those students, who have previously studied in 'vernacular medium' institutions.
- Q.C., **R&C**, was formed to tackle the roadblocks in **Research & Consultancy**.
- Q.C., **Infra**, was established to enhance the **infrastructural facilities** and **learning resources** for teaching-learning. It was decided that the circle would look into the adequacy of funds available, proper allocation of funds and fund raising efforts.
- QC, **Linkage**, was formed to establish **link** with other National/International /academic /Research bodies.
- QC, **FIC**, was created for evolving **faculty improvement** programs.
- QC, **Alum**, was formed for strengthening the **Alumni group**.

2. The proposal to form a **credit society** for permanent staff members of the VES had been floated in the first IQAC meeting as a staff welfare measure. It was decided that the idea would be reconsidered in general body meeting of college for the perusal of all the faculty members

3. It was felt that students' involvement in supporting college activities should be a continuous process throughout the year. For this purpose it was decided that **student council** should be made responsible. It was decided that students would be involved as volunteers in the quality initiatives of the college **throughout** the year. The objective was to make students more disciplined, participative, versatile and quality conscious.

4. It was decided that constitution of IQAC would be modified as per the guidelines provided by the NAAC. After some deliberation following composition of the IQAC was finalized:

- One link member from each department of the college.
- One member from the management of the Vivekanand Education Society.
- One Member from the corporate world ---associated with the cause of education.
- One member from the local society.
- Coordinator of the IQAC ----A senior faculty member.
- Chairperson of IQAC-----Head of the Institution.

5. The functions of IQAC were deliberated and modified as follows:

- Organization of discussions, workshop, seminar & promotion of Quality circles.
- Recording and monitoring quality measures of the institution.
- Acting as central agency of the unit for quality related activities
- Preparation of AQAR.
- Development of quality measures, benchmarks/ parameters in various activities of the institution.
- Research sharing and networking with other institutions in India and abroad.

6. The best practices introduced in earlier years are to be pursued with equal vigor and enthusiasm.

The action plan chalked out at the beginning of the academic year as mentioned above were executed fully or partly

- To help the students from vernacular medium background a pilot program called “**towards better communication in English**” was designed with the help of an expert communicator and was implemented successfully. (Best Practices.1.anex.) The circle plans to continue the program in the coming years for the benefit of students.

- The QC FIP organized a series of lectures, during the non-instructional days just before term exams, as a part of faculty improvement program.
  - Mr. Mandlekar, an ISO 2000 expert with 27 years experience in industry delivered a talk **“Managing Quality of educational Institute”**.  
Lecture was meant to understand the processes of the ‘Quality circles ‘in the industry and to modify them to be used in non-profit educational institutions.
  - Dr. (Ms.) Rajani Kunantambigi from TISS presented a seminar on **“Psychology of Learning”** on 16th October 2007.
  - Dr. Timo Sario conducted an enthralling workshop called **“Creativity in Teaching”**. Dr.Sario is a visiting senior research scientist from VTT Technical Research Center **Finland**. Apart from achieving excellence in Corrosion Science, he is also a **Neuro – Linguistic Programme Trainer**.
- Several faculty members of our college are involved in Research projects and research work. In the process many faculty members are working with premier institute like IIT, TIFR, TISS, BARC. Our college also sends many students to work for projects, to various industries and institutes. The quality Circle **R&C** formed to promote research and linkage is trying to establish continuous linkage with some of these institutes .In this connection Dr. Kurup, Ex-Principal and Director, Vaze College Mumbai was invited to make a presentation on **“Research Development”** on 25th February 2008
- A new wing is under construction to improve the infrastructural facility of the college. The members of QC **‘Infra’** have given valuable suggestions to make the lecture rooms well ventilated, compact and well equipped.  
The members of the QC, ‘Infra’, in association with the infrastructure committee have tried to provide more number of computers and resources to various departments as per their requirement. As a consequence a new LCD and several computers have been purchased and are being utilized

- It was decided that ‘Alumni Association of VES’ will be registered with Charity commissioner so that it may function independently, albeit in association with the college. In this direction efforts are being made by the QC, ‘Alum’. It is expected that soon we will have a registered body of Alumni Association. To improve the alumni link it was decided that each department would try to strengthen its link with the ex students. In this respect remarkable progress is made by the departments of Physics, Microbiology, Computer Science /IT and Psychology. One of our **ex -IT student**, Mr Harbir.... with an expertise in electronic media conducted sessions on “e-Communication” for students pursuing Additional Credit Program’.
- The planned change in the constitution of IQAC is incorporated. Trustee-in-charge of V.E.S College of Arts, Science and Commerce is included as a member of the cell.
- Additional Credit Program was launched in the month of January 2007. Students who opted for this program continued with the activities of the program through the academic year 2007-08. These students undertook guided exploratory work and after completion of their activities made a presentation of their research work in front of a panel of teachers. A new batch of first year students joined the program this year. ACP committee met several times to discuss the progress of this program. The concept of **earn while you learn** was initiated by ACP committee this year. One of our first year students, who wished to join the ACP program but could not afford to pay the fees, was granted **fees waiver** in exchange of a certain number of hours of work in the central Library.
- As decided in the earlier meeting of IQAC, more students were involved in organizing co curricular and extra-curricular activities of the college. For this students council was made a channel. The volunteers for sports and cultural activities worked as always with sincerity and enthusiasm. The student volunteers also worked hard for the placement cell .The institution applauded these students by issuing certificates of appreciation.

- Two of our differently abled students Mr. Bharat and Mr. Sripad have performed commendably in T.Y.B.com exam held in March 2007, securing high first class. As decided by the IQAC team earlier, institution felicitated them with special merit awards during the Annual Prize Distribution Function.
- The placement cell achieved its best this year (ref. Q. No. 36), In fact there is a continuous effort on the part of placement cell to better its previous achievements. This year about 90 students got campus placements with prominent companies like WNS International, Syntel Technology, Cyber Manager, Tech Mahindra, Accenture, Infotech, Citigroup, Patni Computers, NIIT and TCS.
- The audit of the plan of action of IQAC was taken care of by members of the subcommittees who met a number of times during the year to take stock of the progress made in its plan of action.
- We have the practice of taking Students feed back for teachers for last several years and as a consequence a number of improvements in the system could be brought about. Last year the feed back format was modified by a subcommittee of members of IQAC .The feed back was taken by the faculty members, analyzed and discussed with the principal at length. Several improvements were incorporated as a consequence.
- Our central library organized '**book browsing**' sessions for two days for the students, just after their Second term exam got over, on 16<sup>th</sup> and 17<sup>th</sup> march 2007. The books displayed were suitable for general reading. The purpose was to encourage the students to read various books from different fields .The books selected for display were categorized under the heading "fiction ", "Science Fiction", "Thrillers", "self improvement" etc. Many students visited the library during these two days, noted the names of the books, which they liked and later on issued these books. Circulation statistics showed that the books displayed were borrowed by many students after the browsing day.

*In today's world of Internet and television it was heartening to see students taking Interest in books just after their examination was over.*

- Sports committee kept in touch with the sports enthusiast alumni of our college, by inviting them to join the college sports during sport's day activities. This has helped in building a stronger alumni group for our college. We are striving to make it bigger and stronger.

**Thus** the Institution marched ahead towards its quality objectives in the year 2007-08 **with determination and enthusiasm.**

*Some remarkable achievements on the academic, co-curricular and extra-curricular fronts are highlighted in the following pages*

## **NATIONAL SCIENCE DAY**

National Science Day was observed on **28<sup>th</sup> February 2008** and the following programmes were organized on the occasion:

➤ **Talk on ‘Energy Conservation: the need of the hour’:**

Mr. Narendra Jadhav, Additional Manager, Versova Technical Training Center, 220 KV Versova Receiving Station) addressed a gathering of Staff and students. A power point presentation was made, citing the gap between power availability and demand that needs to be met. Several examples were cited as measures to conserve energy, which were appealing to all as they were real life experiences familiar to everyone.

➤ **Presentation on Alternative sources of Energy:**

Ms. Parinita Madan, Ms. Seema Borgave and Dr. Pooja Jagasia made a presentation on Slow Moving Water, a technique for production of Hydrogen, which is a good energy source.

➤ **Skit on energy conservation:**

A team of twelve students of F.Y. B.M.S. presented a skit to the staff and students on the topic of ‘Energy Scenario in Maharashtra and the need to conserve energy’.

➤ **Poster Display:**

F.Y.B.M.S. students conducted a poster exhibition, the theme of which was ‘Environment related issues’ with a focus on energy conservation. The students raised slogans to generate awareness on the issue and pledged to be judicious in the usage of power.

## ACADEMIC FRONT:

Ms. Sharanya from TYBCOM did the college proud by scoring **99 percentile** in the **CAT** Exam. Subsequently she got admission in IIM Calcutta as well as IIM Bangalore and she is pursuing her education at IIM Bangalore.

Ms. Mubeena Sheikh from TYBSC (Physics) qualified in the **National Graduate Physics Examination** held in March this year. Only 1% of the candidates who appeared in this examination have qualified for the same.

In an aptitude test in Chemistry conducted by the **Indian Chemical Society**, **Mr. Aalap Mogre** from SYBSC secured the 8<sup>th</sup> rank.

### **Results comparison**

T.Y.B.Sc .....92.50% result as compared to University overall result ...71.58%

T.Y.B.COM.....84.86%..result as compared to University overall result....59.62%

T.Y.B.A..... 84.88% Result .. as compared to University overall result .... .78.51%

T.Y.B.Sc Computer science..90.4% as compared to University overall result 48% (with gracing)

T.Y.BMS ....93.33% result as compared to University overall result ..... 84.95%

T.Y.BMM....96.08% result as compared to University overall result.....94.16%

T.Y.B.Sc.I.T....91.67% result as compared to University overall result.....65.22%

T.Y.B.Com. B&I...93.10% result as compared to University overall result...93.82%

M.Sc. – II (Microbiology)

M.Sc. – II (Analytical Chemistry) } 100% as compared to Univ. overall result 88.39%

M.Sc. – II (Organic Chemistry)

M.Com. – II ...100% result as compared to University overall result ...87.86%

## 1. PAPER PRESENTATION BY FACULTY MEMBERS

Ms Deepa Venkitesh of Physics department presented papers titled

1) "Influence of intra cavity attenuation on the line width of an erbium doped fibre ring laser," in ISMOT-2007 an International Conference on Microwave and Optical Technology, Roma, Italy, December 2007. 2) "A tunable erbium doped fiber ring laser without the use of intra cavity filters" Photonics North 2007, International Conference on Photonics, Ottawa, Canada, June 4-7, 2007.

*(Received **the Best Paper** Award for this Paper with a cash prize of 300 Canadian Dollars)*

From Chemistry Department, Dr.(Mrs.) Leela Jain's article "Co-ordination Chemistry Review" in UK was among the (Top 25) most downloaded articles during 2006.

From the chemistry department Dr. V.D. Barhate's research paper was published in the Research Journal of Chemistry and Environment in the June 2007 issue.

In order to sustain and enhance quality in other key areas the various link members of QAC and the other staff members of the Institutions worked hard through out the year. Some remarkable achievements in co-curricular and extra curricular activities are as follows. :

- The **Psychology** department operated the **Counseling cell** to provide emotional support service to the students. Students have availed this service and have improved on their ability to cope up with their emotional problems.
- **Women's development cell** of the college organized a number of programs and workshops which were of immense importance to our girl students.
- **IQAC organized** 8 week long program called “**towards better communication in English language** “ for a group of Science students to help them overcome their communication problems (best practice1)

**LIBRARY:-**

- Display of **selected books on Environmental studies**
- Display of **Biotechnology** related books
- **Browsing day** organised by Library in association with IQAC (Best Practice)
- Issue of Scholars card (best practice)

**Career Guidance Cell & Placement cell: -**

- Guidance for Personal portfolio management to students
- A number of seminars were conducted throughout the year to acquaint the students with diverse career opportunities available and also orient them on how to prepare their resumes and present themselves at interviews
- This year about 90 students got campus placements with prominent companies like WNS International, Syntel Technology, Cyber Manager, Tech Mahindra, Accenture, Infotech, Citigroup, Patni Computers, NIIT and TCS.

Many of the students who benefited by the efforts of the placement cell belonged to B.Com and B.Sc. courses.

**Mega Events organized during 2007-2008 :-**

**SciClone:-** The M.Sc. (Microbiology) students organized an inter-collegiate festival "Sci – Clone" from 18<sup>th</sup> – 20<sup>th</sup> October 2007, that had participation from several prominent colleges of Mumbai and its suburbs . It's highlight was a seminar and poster competition. Dr. P.K. Dhakephalker an eminent scientist made a presentation on "Molecular techniques in biodiversity study"

**RAGA:** - The theme of the annual cultural event of the department of BMM "Raga" was "Shahi Durbar" this year. This saw the unfolding of the rich cultural diversity of our country followed by a performance by the college band "ATKT"

**Impression.** The department of BMM organized its annual inter – collegiate festival "Impressions 2007" called "Media – madness" from 23<sup>rd</sup> to 25<sup>th</sup> of November, during which a publication of the department titled "Goonj" was released.

**Sagacity:** - - The department of I.T. and Computer Science organized its annual festival "Sagacity" on 7<sup>th</sup> and 8<sup>th</sup> December 2007 which was inaugurated by the Chief Executive Officer of TCS. A technology festival, which included "Hardware Workshop" "Gaming Events" "Embedded System", "E-governance"

**M<sup>3</sup> Contest:-** The Annual Mathematical contest for Degree and Junior College **was conducted** on 1<sup>st</sup> December 2007 in which our junior college students also participated.

The **Physics Association** organized an "e" exhibition on **astronomy (best practice 3)**

**Talentia:-** Annual youth festival for our own students was organized on 2<sup>nd</sup> and 3<sup>rd</sup> January 2008, with various events from fine arts, literary arts and performing arts.

**Confluence:-** The department of BMS organized its annual inter – collegiate festival from 28<sup>th</sup> to 30<sup>th</sup> January in which 20 city colleges participated .Highlight of “Confluence” this year was the address by Mr. Ujjwal Bannerjee (a Lead India Contest finalist) and Mr. Karthi Keyan (CEO of Real Estate Intelligence).

**Euphony:-** The department of Banking and Insurance organized its annual festival of “Euphony” on 4<sup>th</sup> and 5<sup>th</sup> February 2008. The aim was to enhance the practical knowledge of the students. This included panel discussions, brain storming quiz, war of DJs.. 40 colleges from Mumbai participated in various innovative events related to Banking and Insurance.

**Space/Time Management :-**

- The free lecture rooms from our Institute of Technology were utilized during their non working hours to conduct lecture for newly introduced M.Com. program

## Part B

### 1. **Activities reflecting goals and objectives of institution.**

The goal of our institution is to impart quality education. This is reflected in the curriculum design, extra curricular and co curricular activities of our institution. (Details of these are given under corresponding questions). Our institution is constantly striving to better its own performance.

The objectives set by our institution and the activities undertaken in 2007– 2008, are as follows :-

- i) **To provide conducive academic atmosphere to students.** In our continuous effort to provide our students conducive atmosphere in the college we have adopted following measures
- Our students are encouraged to interact within classroom via seminars, presentations, case studies, games etc.
  - In our endeavor to encourage students to think independently, various departments organized group discussions in the class rooms, where in students are expected to state their views and opinions freely. Students are encouraged to contest diverse views.
  - Talent nurture programs: Departments of Physics, Chemistry, Psychology, Microbiology and Mathematics made special efforts to identify the students who are keenly interested in their respective subjects, and went all out to support them in their spirit of enquiry.(best Practice..)
  - Department of Computer Science /I.T. organized lectures, /workshops to update their students on various advanced techniques of their field. Faculty members of these departments attended workshops /seminars in the University to update themselves with upcoming techniques.  
Ref (ans q no. 26)
  - Departments of Economics and Commerce made extra efforts to identify the students who can be groomed as effective communicators and

encouraged them to understand technical, social complexities through additional readings discussions and participation in zonal level elocution and essay writing competitions.

ii) **To improve over all academic performance of students.**

- Regular class tests / tutorials were conducted to give sufficient practice.
- In some descriptive subjects, test series were conducted throughout the year. The students were given feed back, after each test, and specific guidelines for presentation of answers in the examination.

Department of Sociology introduced a series of class tests fashioned in the format of the university exam with due consideration to time management, drafting answers in a structured manner which is in keeping with the expectations of examiners at the university. The effort showed its reflection in this year improved results of this department

- Remedial courses/bridge assignments were given to weak or backward students in subjects like Mathematics, Economics, Physics and English language
- Physics Department conducted Problem solving sessions (through out the year) and capacity building sessions (during the winter and summer break) for students of Physics.(best practice..)
- Regular assignments were given to improve the performance of students in some subjects. (best practice)
- OHP / LCD were used in class room teachings to facilitate understanding of difficult topics.
- Computer simulations were used to depict some scientific themes in Physics department

iii) **To inculcate discipline as a value among the students.**

- We emphasized on keeping our premises clean.
- We emphasized on punctuality in class rooms
- Our college is known for strict adherence to regular attendance in class. Parents therefore throng to get admission for their wards in our college
- We emphasized on adherence to dress code by students and teachers.

iv) **To develop employable skills among students:**

We believe that academic achievements need to be complemented with certain skills which will improve their employability status. And to achieve this, the students must go beyond classroom learning and exam oriented learning. They must acquire general knowledge, communication skills, quantitative skills, & outside exposure. Following are some of the activities taken up with this target:

- Various departments conducted class wise elocution competitions, quiz competition & seminar competition.
- Career Guidance Cell organized interview (Mock) and Group Discussion to prepare for the entrance tests for various professional courses and careers.
- Career Guidance Cell worked through out the year to improve Vocabulary & retention skills of our students to prepare them for competitive exams.
- Students were encouraged and supported to participate in University Youth Festival and inter- collegiate competitions. (Award List is attached).
- Students were encouraged to participate in M<sup>3</sup> contest (Maths, Muscle Man contest) to improve their quantitative ability. Department of Physics also helped students to sharpen their quantitative skills with extra coaching.
- Educational visits, field trips, guest lectures were organized by different departments to provide students with relevant exposure.
- Department of Mathematics organized a specially designed Computer Quiz called “Who is the Computer Wiz” to enable the B.Com Students in acquiring general knowledge and recent trends in IT industry and also to strengthen their ‘computing ability’.
- Departments of Microbiology, BMS, Physics & BMM encouraged students to gain practical knowledge during their vacation by undertaking summer training.

- BMS section organized a two day program called ‘Brand Wagon’ & ‘Confluence’ wherein students were exposed to lectures of practicing experts from the relevant fields. This also exposed students to business situations, case studies etc which help them in turn to apply theory in practice.
  - BMM section arranged a programme called ‘Impressions’ which gave students experience and exposure to media management, documentary making & film appreciation.
- v) **To render service to the society.**
- The foremost service to the society, we feel, is to make our students good human beings and honest citizens – for they are the future of our nation. We therefore continuously strive to achieve this.
  - Students in large numbers participated in Social work. For this the platform provided was N.S.S. (Details will be found from response to Q. 3)
  - The college has introduced the ‘Additional Credit Program’ for those students who are academically brilliant. In an endeavor to sensitize these students towards social issues one of the modules in the program is “hands on social work” is included. In this connection a work shop was conducted by Tata Institute of Social Science for these students and they participated in various social activities.

## 2. **New Academic programmes initiated (UG and PG):**

- The Department of Chemistry introduced M.Sc.in Chemistry (Analytical Chemistry /Organic Chemistry) with the approval of Mumbai university in 2007 July, and this program completed its first year successfully.

- The department of Commerce of our college introduced M.Com (Accountancy) program with the approval from Mumbai University in July 2006-07. The first batch of our M.Com Students successfully completed their Masters' programme, thereby achieving 100% results.
- At its own initiative the college started an "Additional Credit Program" for the academically advanced students of undergraduate course to help them realize their potential in the month of April 2007. The first batch students of this program have completed the course and have added eight extra credits to their achievements. The second batch of students are pursuing this program with enthusiasm.

### 3. **Innovation in Curriculum design and Transaction.**

University provides syllabus for each undergraduate course, together with a time frame.

Equipped with this prescribed syllabus along with the time line, each faculty member of V.E.S. College designs a curriculum suitable for the target group of students, for the entire academic year at the beginning of the term.

The main aim of the curriculum design is to support the student's progress towards mastery of the knowledge and skills needed to complete the course. In order to achieve an all-round personality development of students, the curriculum transaction is done in such away that it demands active participation and involvement of students

Following are some of the measures adopted by various departments of the college as part of the curriculum design

**i. Seminars / Presentation:** The students were encouraged to actively participate in seminars and presentations. The objectives were

- To highlight certain important topics of the syllabus and to look deeper into their applications.
- To improve presentation skills
- To inculcate habit of research.
- To bring about awareness of new frontiers in various subjects .

- For example Chemistry department organized a presentation “H<sub>2</sub>IQ” to know more about Hydrogen as alternative source of energy. Maths department organized a lecture on “Configuration of present day personal computer” for T.Y. B.Com students. Physics department organized a simulation program on Fourier series. “Molecular Technique in Biodiversity “ was organized by Biotech department.
- Using various aids, students also made presentations on various topics like research methods in Cognitive Psychology, developmental issues in preschool years, ethics in counseling etc.... This enabled them to learn concepts and helped them to develop presentation skills

This has been one of the most common methods adopted by all the departments of the college.

**ii. Outdoor excursion / Field Trips – / Industrial Visits**

- F.Y.B.M.S. students visited Thane Belapur Industrial belt to get practical knowledge of the waste management and industrial safety.
- T.Y.B.Sc students of Chemistry visited “Asian Paints” to understand latest technology in this field
- The third year students of Psychology were also taken on a study tour to the Regional Mental Hospital, Yerwada, Pune. This visit enabled the students to get a first hand view of the workings of one of the largest mental hospital in India. The students interacted with the staff as well as the inmates of the hospital. Many students gave feedback saying that this trip made them more sensitive to the problems that are faced by the patients and their family members.
- T.Y.B.Sc./ M.Sc. students of Microbiology and Biotechnology took a trip to Delhi to visit JNU , IARI, AIIMS, ICGEB and NIMR to observe working of various sophisticated instrument like DNA sequencer. ( Best Practices 1)

- TYBMS students visited leather industries in Jaipur.
- Two industrial visits were organized by the department of BMM for the students-..... to Hyderabad for the first and second year students and to Jaipur, Agra and Ranthambore for the third year students.
- In Hyderabad, the students visited the famous Ramoji Film City to have a glimpse of the film-making world. They also visited the Salar Jung Museum, the Charminar and Snow-world. In Jaipur the students visited the Rajasthan patrix , Amir Palace, Jantar Mantar & City Palace. In Agra they visited the Taj Mahal and on the way to Ranthambore, saw the historical place Fatehpur Sikri. The industrial visit ended with a visit to the Ranthambore Fort and a thrilling forest safari.
- Commerce Department organized an Industrial Visit to 'Parle' to enable the students to understand production systems.

**iii. Book display with book review –**

The department of Biotechnology put up for display all the new books purchased in the last three years on 11<sup>th</sup> January 2008. The books were categorized as per the module of the course. The students could browse all the new books apart from the regular text books related to their prescribed syllabus.

Specially selected books were displayed on different days in the central library, by the department of Environmental studies, for students of B.Com and BMS. The purpose was to promote self-learning and inculcate habit of extra reading among students. Books related to important issues like global warming, rain water harvesting disaster management were put up on display.

- iv.** Articles, charts, current news paper clippings were displayed on different notice boards to improve and focus on various issues.

**v. Developing teaching learning tools with students participation:**

Use of OHP/LCD : almost all departments use OHP /LCD to give visual effect to teaching and to conveniently handle large data and proofs.

**vi Exhibition**

- The high point of the Physics Association activities was the “e” exhibition on astronomy. (best practice.3)
- The annual event of Department of sociology of putting up exhibition on current social issues mirroring ground realities of today’s world, was well received by both students and staff of various departments.
- Students of Economics department put up a permanent display of charts on certain important data in the T.Y. B.A lecture room, which acts as a ‘ready-information’ and also highlights interrelation between different papers they study. From time to time new inputs are made in this display.

**vii. Discuss Case Studies:**

- By Computer department, to understand the process of project development.
- By Commerce department to highlight industrial management and various developments in different industries and Commerce.
- By Economics department to understand the applicability and relevance of various economic concepts.
- By Psychology to understand the intricacies of human relations.

Through the use of an assortment of methods like quiz, in-class debates, small group discussion, and role-plays, a good attempt was made to balance self-exploration and the task of learning concepts in various topics like counseling and interpersonal skills, social interaction and stereotypes, developmental issues like experience of generation gap, parent-child relations etc... in all the three years classes in department of Psychology.

**viii. Special assignment as bridge course:**

To bridge the gap felt by students in the transition from +2 level to first year graduation level, following departments designed bridge program and assignment sets.

- Department of Mathematics
- Department of Economics
- Department of Physics (best practice)

**xi. Peer to Peer learning –**

Departments of Environmental Studies, Mathematics and Economics used ‘Peer to Peer’ Method to teach certain difficult concepts to a large group of students.

**x. Subject Association activities -**

Exhibitions, festivals, seminar, workshops, Quiz, Screening of educational films, essay competitions, logo competitions were organized regularly during the weekly Forum Time on Saturdays by various Associations of our college. (Physics Association, Chemistry Association, Microbiology Association, Math Association, Economics Association, Commerce Association, Psychology Association and Sociology Association).

**xi Making documentaries, docudramas, ad films:** These were some practices adopted by B.M.M. department of our institution to initiate the students to the world of media.

“COPYRIGHT RESERVED’08 “ the special festival was organized this year in the month of February specially to showcase the short films, Music Videos, Advertisements & Documentaries made by the BMM students.

Rajyesh Mallik, short filmmaker and member of the IMPA (Indian Motion Pictures Association) was invited to judge the event. Mr.Mallik’s short film “Confessions” recently won three awards (Best Short Film, Best Short Film from India and Best Director) at a film festival in Canada. Interestingly, three of our second year students - Pratap, Sahil and Pankaj assisted Mr. Mallik in this winning short film. Our alumni Sriram and Hari Pillai were also invited to judge the films and encourage the students.

X1.

- **Newsletter Publication, Photography –**

- Department of Microbiology brought out the yearly magazine of biological Sciences called “In vivo”, second in the series on 29<sup>th</sup> July. It contained articles on topics ranging from basic biology to Nano technology, Cloning and Biological war fare. This initiative encouraged students towards Science journalism. (best practice)
- The in-house publication of the department of BMM was released during the department’s annual inter-collegiate festival – IMPRESSIONS’07. The legendary journalist, S.Sadanands’s publication – the Free Press Journal sponsored and printed the 8- page GOONJ with a wide spectrum of articles and features written by the budding journalists and aspiring media students of the department.
- The T.Y.B.Sc (IT) students launched a paper “**That’s IT**” on 18<sup>th</sup> of February as one of their projects in the subject of project management.

#### **4. Inter - disciplinary programmers started :-**

With its own initiative the college has started a program called “Additional Credit Program” (A.C.P.) for the bright and aspiring students from Arts, Science or Commerce. The aim of this new program is to provide an opportunity, to the advanced learners, to realize their potential. **Part** of this program is **interdisciplinary** in nature.

The first batch of students of ACP completed the interdisciplinary component of 53 hours duration by the end of April 2007. The highlight of the program was self-enhancement training by expert counselors and workshop in basic law.

As a part of this component the students of Commerce and Management enjoyed sessions on Food Technology and Computer training, whereas students of I.T. and Biotechnology had brain-storming learning sessions in Economics and Accounts. Students of Arts faculty brushed up their quantitative ability with sessions of Statistics and Accounts.

On the occasion of completion of the first component of the program an interface was organized by the ‘ACP’ team between the students and Faculty members. The idea was to get feed back from the students about the first component. The student participants showed great enthusiasm and appreciation for the entire interdisciplinary learning experience and were all set to start work for the next components of the program.

The students of the first batch of ACP are rich in their ideas and enthusiasm .The Second module of the program for them started in August 2007, with students opting to work in their chosen field of interest under the guidance of the respective mentors.

The program started with “Library usage training” for the entire group. By the end of the first term of 2008, most of the ACP students had completed the exploratory work required in their field of choice. They had also ‘zeroed in’ on the aim and objective of their respective final work –application in ‘real’ field –real or simulated. On December 24<sup>th</sup> , 2007 participants completed the second component of the program by making a short presentation of their respective exploratory work in front of a panel of teachers.

This program also has a social- work Component. As part of this component the students attended a workshop conducted by TISS and are presently involved in outreach activities. Vinita of S.Y. B.A., who is working with Nasheo for special children, says that it is a huge learning experience for her.

The first batch of ACP students are keenly working towards completion of their final work, the third module. Meanwhile the next batch, of enthusiastic ACP students, is ready to take off on 29<sup>th</sup> April 2008, starting with the Self-enhancement workshop.

##### **5. Examination reforms implemented:**

Over the years we have developed a very objective, efficient and yet transparent system of conducting examination under the broad guide lines stipulated by the University.

Other than University stipulated exams like Term exam and ATKT exam, each department of the college conducts a Preliminary examination for the final year students, in the format of university pattern, about one month before University examination .The students are then given feedback and general guidelines to better their performance.

Every department conducts periodic tests in their respective subjects for each class by way of open book test, test series, objective test etc. to improve the general performance.

##### **6. No. of candidates qualified for NET / SET: - None in the year 2006-07.**

## 7. Total Number of Seminars / Workshops conducted:

In all 15+7=21 seminars /workshops and guest lectures were conducted in the college

### Seminars / Workshops:

- The department of Microbiology organized a one day workshop for teachers of M.Sc (Microbiology) on 'Validation, calibration and traceability' in view of the new syllabus introduced in M.Sc II in Microbiology. The workshop was conducted by Ms Suniti Dixit of Ashalini Lab Technique services, an NABL accredited lab. It was attended by PG teachers of Microbiology from the University of Mumbai.
  
- The Department of BMS conducted "Seminar on Marketing" on 4<sup>th</sup> August. The Resource Persons were Mr. Kailash Chitnis, former Area Sales Manager with Raymonds and Mr. Kannan Rajarathnam, Head of Finance and Strategy with the Hinduja group of companies.
  
- A seminar "Knowledge acquisition through Experience" was conducted on resume writing and interview skills on 8<sup>th</sup> of September, the resource person was Mr. Dhiraj Malhotra, , general manager of Amron Consultancy.
  
- A seminar was conducted by some of our old students on 29<sup>th</sup> of September for S.Y.B.SC IT and CS and TY. BSc IT and CS on the topic of 'Career opportunities after graduation'.
  
- Dr. (Ms.) Rajani Kunantambigi from TISS presented a seminar on "Psychology of Learning" on 16<sup>th</sup> October 2007, for the teaching faculty of the college.

- A seminar “Managing Quality of educational Institute” was conducted as FIP. The resource person was Mr. Mandlekar, an ISO 2000 expert with 27 years experience in industry.
- The Micro-Biotech Association organized a Seminar and Skit on AIDS awareness on 1<sup>st</sup> December, the “WORLD AIDS AWARENESS DAY”. The Seminar dealt with various aspects of AIDS like modes of transmission, diagnosis and treatment of AIDS. The skit portrayed the susceptibility of today’s youth to AIDS.
- The Psychology Association organized a talk by Ms. Anita Patil from the “NETWORKING POSITIVE” group on 1st December 2007: She touched upon the social stigma faced by HIV positive people and reiterated the importance of assertiveness in sexual behavior. The talk was an overwhelming experience for the audience which consisted of staff and students.

A seminar was organized on 28<sup>th</sup> February 2008, the NATIONAL SCIENCE DAY. Mr. Narendra Jadhav, Additional Manager, Versova Technical Training Center, (220 KV Versova Receiving Station) addressed a gathering of Staff and students. A power point presentation was made, citing the gap between power availability and demand, that needs to be met. Several examples were cited as measures to conserve energy, which were appealing, to all as they were real life experiences familiar to everyone.

- Ms. Parinita Madan, Ms. Seema Borgave and Dr. Pooja Jagasia made a presentation on Slow Moving Water, a technique for production of Hydrogen which is a good energy source.
- The department of economics arranged a special seminar on career opportunities for Economics graduates. Students themselves compiled a lot of information on this topic. It was followed by a talk on the same theme by Professor Pannicker, a Counselor & Professor in Economics at Acharya Marathe College.

- Career Forum conducted a seminar on the topic “After graduation “on 24<sup>th</sup> January 2008.
- An enthralling workshop called “Creativity in Teaching“ was conducted by Dr. Timo Sario as a part of FIP. Dr. Sario is a visiting senior research scientist from VTT Technical Research Center Finland . Apart from achieving excellence in Corrosion Science, he is also a **Neuro – Linguistic Programme Trainer**.
- Dr. Kurup, Ex-Principal and Director, Vaze College Mumbai was invited to make a presentation on “**Research Development**” on 25<sup>th</sup> February 2008
- A seminar on career guidance was conducted by TCS in which they informed about their campus placement plan of our college for B.Sc students (Phy, Chem, IT and CS).

### **Guest Lectures**

About 7 guests were invited to talk on various topics :

- A guest lecture was organised on “Capital Markets” by Mr. K. S. Murthy, Director ITM Financial Markets, Vashi on 9<sup>th</sup> February, 2008
- Mr. L. C. Khitani HOD of Mathematics gave a talk on ”BINARY MAGIC” on 8<sup>th</sup> September.
- Department of Physics organised a lecture on “CAREERS IN PHYSICS” by Mr. Atul Mody.
- Mr. Vijay Shekhar, Bureau Chief, Zee News delivered a guest lecture to the BMM students on Broadcast Journalism.
- Ms Vaibavi Shitut addressed the BMM students on Journalism as practiced today.

- Mr. Nilesh Bhoite, who is working as the HR Manager Ranbaxy, conducted the seminar on interview skills on 22nd of September.
- N. Vadia conducted an interactive session based on the new gaming portal.

## **8. Research Projects: -**

### **UGC sponsored research projects**

- A major research project “Biosurfactant production by a bacteria isolated from jet fuel and its varied application”. is being carried out in the department of Microbiology by Dr. Nagesh Mallik, Mrs. Hemamalini V., Mrs. Santhini Nair and Mrs. Dona Joseph.
- Dr. V.D. Bharate & Ms.Parinita Madan faculty, Department of Chemistry are working on a minor research project “Synthesis and Characterization of metal complexes with semi Carbazone”.
- A minor research project “Method of metal ions with semi Carbazone“ is in progress in Department of Chemistry by Dr.(Mrs.) Mary Stephen and Mrs. Seema Borgve.
- Mrs. Deepa Venkitesh completed a minor research project “Computational modeling of Erbium doped fiber laser and its experimental demonstration”.

### **Research Project sponsored by the University :**

The University of Mumbai has sanctioned research project of two of our staff members.

The details are as follows:

- 1) A project on “emotional issues faced by the students working as the call centre executives and its implication for counseling”  
by Ms. Gayatri Balasubramanian.
- 2) A project on “Mathematics for Environment” by Mrs. Dipta Dasgupta.

## **9. Patents generated, if any: None**

10. **New collaborative research programmes:** None

11. **Total research grant received from various agencies: -**

Research projects mentioned below were approved by UGC

1. Major research grant sanctioned for Dr. Mallik of Microbiology:
  - Rs. 4,88,100 (received on 13/09/07)
2. Minor research grant sanctioned for Dr. V. Barhate & Mrs P. Madan.  
Rs 67,000 sanctioned (received Rs.46,000)
3. Minor research grant sanctioned for Dr. M. Stephen & Mrs. S. Borgave .  
Rs.90, 000 sanctioned (received Rs. 67,500)

This year two minor research projects were sanctioned by Mumbai University

4. Minor research grants sanctioned for Ms Gayatri Balasubramanian of Department of Psychology.  
Rs. 10,000 sanctioned
5. Minor research grants sanctioned for Mrs D.Dasgupta of department of Mathematics Rs. 5,000 sanctioned
  - **In 2007-08 Total research grant received == Rs.490100**

12. **Number of research scholars:**

13 Faculty members are involved in research / major research projects/ minor research projects:

### **Chemistry**

On going minor research Projects:

- i) Synthesis and Characterization of metal complexes with semi Carbazone  
Investigators 1) Dr. Barhate  
2) Ms. Madan
- ii) Method of metal ions with semi Carbazone

Investigators: 1) Dr. M.Stephen  
2) Ms. Borgave

**Economics:**

Collaborative Research proposal developed with CSDS

Contributor: Dr. Suniti Nagpurkar

**Microbiology**

On going research Project (major project sponsored by UGC):  
“Bio-surfactant production by a bacteria isolated from jet fuel and it’s varied applications”. Investigator Dr.N.Mallik.

**Mathematics:**

Minor research project ‘mathematics for environmental studies

Contributor: Dipta Dasgupta

**Physics:**

- i) Mrs Deepa Venkatesh pursuing Ph.D. from IIT Mumbai in Photonics  
She completed the computational modeling of erbium doped fiber laser and its experimental demonstration (Sponsored by the UGC under the Minor Research Project Scheme: 2005-2007).
- ii) Mr. Atul Mody in Physics Education.
- iii) Mrs. Anita Kanwar working for her Ph.D. thesis on Liquid Crystals.

**Psychology**

Ongoing Research Project sponsored by Mumbai University ‘

Investigator: Ms. Gayathri Balasubramanian

Also a number of our students are pursuing M.Sc. by research in **Microbiology and Chemistry.**

A number of our U.G. students are doing investigative study on various topics under Additional Credit Program

**13. Citation index of faculty members & impact factor:** - Not Available exactly.

Dr. (Mrs.) Leela Jain of Department of Chemistry received a letter from the publisher of 'Co-ordination Chemistry Review' from U.K., congratulating her on her review article on 'The Chemistry of Bi-Nuclear Palladium(II) and Platinum (II) complexes', which was one of the 'Top 25' most downloaded articles during the year 2006.

**14. Honors / awards to the faculty:**

Mrs Anita Kanwar was awarded the Ph.D degree by the Mumbai University in August 2007. Her area of specialization was "Liquid Crystals".

- Dr. Vasant Barhate was awarded Associate Membership (A.I.C.C.E.) by the International Council of Chemistry and Environment..
- Dr. Anita Kanwar participated in the National Conference on Physics of Semiconductor Devices & Smart Materials organized by the Karamveer Bhaurao Patil College, Vashi. She won the best paper presentation award at the conference.
- Prof (Mrs.) Deepa Venkitesh received the Best Paper Award at the International Conference on Photonics held from June 4<sup>th</sup> to 7<sup>th</sup>, 2007 at Ottawa, Canada for her paper titled 'A tunable erbium doped fiber ring laser without the use of intra cavity filters'.
- Mrs. Madhavi Vaidya from computer science department presented a paper on "Amalgamation of Distributed Databases with data mining technique" in National Conference of Data Mining and Applications" held on 23<sup>rd</sup> and 24<sup>th</sup> March 08. Her paper was selected along with other 30 papers in this national conference.

**15. Internal resource generated:**

To run the Additional Credit Program efficiently fund is being generated through the fees charged from the participating Students.

To run the talent nurture program in Physics money is generated through fees.

**16. Details of departments getting SAP / COSIST / DST.Fist etc**

**assistance / recognition:**

None

### **17. Community Service:**

The National service scheme unit of our college is very vibrant and enthusiastic about their work and over the years they have brought laurels to the institution by their sincere efforts. The N.S.S. unit of our college was established with a basic objective of orienting students to work towards social causes. Ever since its inception in 1982, the unit has been providing a platform for the interested students to understand the social issues in its true perspectives and contributing towards social causes and the unit has created indelible footprints by organizing various socially relevant programs.

The academic year 2007-08 has been a record year of activities and achievements. Highlights of the activities are

#### **June 2007**

- **Vanmahotsav**-The Vanmahostav day was celebrated at our adopted area, at Sanpada, in Navi Mumbai. Our volunteers planted 100 saplings in the garden at Sanpada railway yard area.



**(The garden developed by the unit at sanpada, Navi Mumbai)**

- **Environment** awareness rally was organized on 4<sup>th</sup> June involving 100 volunteers in the adopted area.

- Volunteers visited the adopted area for tree plantation and tree protection activities on 17<sup>th</sup> and 20<sup>th</sup> June 2007.

### July 2007

- **Orientation programme** Orientation program for the new comers was conducted on 15<sup>th</sup> and 16<sup>th</sup>. of July. NSS Program officer explained the aims, objectives and benefits of joining NSS .
- **Enrollment drive** was conducted and admitted 125 boys and 75 girls in NSS.
- Volunteers visited the adopted area on 8<sup>th</sup>, 15 and 22<sup>nd</sup> July for tree plantation activities.

### August 2007

- **Fund collection drive for Hi-Tech foundation.** A fund collection drive was organized and Rs 1000 were collected for the Hi-Tech foundation, a NGO for the cause of physically challenged children. The unit set up a sales counter in the college to sell the National flag made by the physically challenged children on 13<sup>th</sup> and 14<sup>th</sup> August.
- **Independence Day celebration on the campus-** Volunteers presented a street play on National integration in college and our adopted area.
- Orientation for blood donation on 27<sup>th</sup> August through poster competition in the college . The posters prepared by the volunteers were exhibited.
- Street play on blood donation and Thallemia test was prepared and presented on 28<sup>th</sup> August.
- **Thallemia awareness programme on the campus. Mr. Vinay Shetty of HOPE foundation** conducted awareness programme in the campus through sixteen intensive class room contact programs on 30<sup>th</sup> August and explained the students about the magnitude of the problem and the necessary precautionary measures.

### September 20007

- **Blood donation camps-** Two blood donation camps were organized on the campus. Volunteers donated **192 bottles of blood** for ESIS blood bank, Worli and Raheja blood bank, Mahim.
- **Thallemia Detection Test:** Thallemia detection tests were also conducted along with the camp. Mr.Vinay Shetty supervised the entire blood donation and Thallemia test check-up camps.

### October 2007

- **Gandhi Jayanti Celebrations-** 40 volunteers participated in the peace rally at Marine Lines organized by Mumbai Sarvodaya Mandal.
- **Red Ribbion club members conducted AIDS awareness** program on the campus on 8<sup>th</sup>,9<sup>th</sup> and 10<sup>th</sup> in the college through poster competitions and personal contact programs.
- **A street play on AIDS awareness** was performed in the adopted Sanpada area and Konkan nagar.

### November 2007

- **Energy conservation program** was organized on the campus on 3<sup>rd</sup> November.
- **Waste management programme-** Orientation program for the volunteers participating in the energy conservation and waste management campaign was conducted with the help of experts from the Tata Institute of Social Sciences.
- **Training program for the volunteers** on Waste management was organized with the help of the TISS. 30 volunteers were trained by TISS on 15<sup>th</sup> and 16<sup>th</sup> November.
- **Waste Disposal awareness program** was conducted at our adopted Konkan nagar slums and Hariyali manch, Sanpada on 18<sup>th</sup> and 25<sup>th</sup> November through door- to- door contact program and street plays.

### December 2007

- **AIDS awareness program on the campus and at district level.** Our street play on AIDS awareness was awarded the 2<sup>nd</sup> prize at the district level Street play competition on HIV Aids held at Junjunwala College, Ghatkopar.
- **Rural Camp-** As usual, rural residential camp was organized at adopted village, Sutrakar for 10 days from 22<sup>nd</sup> December involving 40 girls and 46 boys. The campers undertook programs like energy conservation rally, construction of Bandharas through Shramdhan, sports meet for locals, adivasi dance competition and cultural programs.

In addition to these, the unit has organized various ongoing projects like

- **Hariyali Manch at Sanpada-** Our Volunteers visited the adopted area on fourteen Sundays for tree plantation and related activities
- **Pulse polio immunization-** Pulse polio immunization program in our adopted slum Konkan Nagar was organized in the month of August, September and November 2007 and January 2008.
- **AIDS awareness program organized in the campus, adopted village and adopted slum area.**
- **Blood donors club-**We have an active blood donors club ready to donate blood for the needy on phone calls to emergency cases at their places. Volunteers made 32 on the spot donations at various hospitals during the academic year.

In short, NSS activities for the year 2007-08 has been a matter of great satisfaction .In the process **69 volunteers** completed their required 120 hours of social work and qualified to get 10 grace marks in the University and College examinations.

**Special Note:**

As part of our newly initiated “Additional credit Program “ the students of the group are involved in community service activities individually, helping specially abled children in their learning process, helping to familiarize economically backward children to computers.

**15. Number of teachers and officers newly recruited**

No. of faculty	Department
1 temporary lecturer	Accountancy
1 temporary lecturer	Commerce
1 Lecturer	Psychology
4 temporary Lecturers	Microbiology/Biotech

Total No. of new Teachers :- 7

**Non-teaching staff:**

Head clerk promoted to office superintendent

One peon promoted to Jr. Clerk.

**16. Teaching & non teaching staff ratio :**

For Aided section :

Teachers	Non-teaching staff.
51	35
Ratio = $51/35=1.5$	

For unaided section :

Teaching staff...14
Non teaching staff 20
Visiting staff.....40 to 45

**17. Improvements in the library services:**

We at V. E. S. College feel that “Library” is one of the most important services to facilitate “higher education”. College library committee consists of the Librarian, a few faculty members and a student member. This committee meets from time to time to decide on improvement plans for the Library.

**The Library carried out the following activities for the Academic year 2007-2008 in its pursuit to encourage and enhance the use of the Library by students and improve the services extended to the students and staff.**

A) **READERSHIP ENHANCEMENT PROGRAMME:** In our effort to improve the usage of the Library, we planned different activities that familiarized and encouraged the students to use the Library resources.

a) A detailed **Orientation Programme** was organized for the new comers (FY students) from 9<sup>th</sup> July 2007 till the end of July 2007 to familiarize them with the Library functions, resources and the services in the beginning of the Academic session.

An **“Information Literacy Programme”** was organized for the first batch of Additional Credit Programme (ACP) students on 18<sup>th</sup> August 2007 to acquaint them with various search strategies, online databases, Search Engines, Meta search Engines and subject gateways available on the Internet which would be useful for their research work.

b) **Scholar’s Card:** - A scholar’s card was given to students who topped their classes and who have been recommended by the teachers for additional facilities. This additional card encouraged the students to explore and use the Library collection beyond their requirement of curricula. Additional Cards were also given to students who have opted for **Additional Credit Programme** conducted by the college.

c) **Book Exhibitions:** The Library organized two Book exhibitions to familiarize and encourage students to use the Library Collections. The department of EVS conducted one exhibitions separately for FYBCom students on 24<sup>th</sup> August 2007. Books related to important Environmental issues like Global warming, Rain water harvesting, Disaster Management etc were put up on display.

The department of Biotechnology displayed all the new books purchased in the last three years on 11<sup>th</sup> January 2008. The books were categorized as per the modules of the course and thus the students could browse all the new books apart from the regular books related to their course work.

**“Browsing Day”** was specially organized on 19<sup>th</sup> March 2008 (after the examinations) to encourage students for general Reading like Fiction, Non fiction, self-help books, science fiction and some classics. The exhibition got response from the students. Students were allowed to borrow the books they had selected from those on display, after the exhibition.

## **B) IMPROVING ACCESS TO RESOURCES:**

### **a. Bibliographic Services:**

The Library continued the practice to index articles from the journals subscribed in the field of Management and Economics. This helped us to provide bibliographic services to the users in anticipation or on demand. 36 periodicals of national and international repute were indexed and this database was extremely useful for the students to do their project work.

### **b. Following new additions were made to the collection of the Library**

#### **i) Newspapers**

- a) Employment News
- b) DNA (Subscription gifted to College by Alumni)

#### **ii) Periodicals:** Keeping in mind our collection development policy to provide access to most of the Indian journals in the subjects offered by our college we have subscribed to many Indian journals beginning from this year (2008) from the UGC Development Grant (XIth Plan). Following is the list of the journals subscribed.

#### **Indian Journals from UGC:**

1. Indian Journal of Clinical Psychology

2. Indian Journal of Applied Psychology
3. Journal of Personality & Clinical Studies
4. Indian Psychological Review
5. Psychology & Developing Societies
6. International Journal of Economics
7. International Journal of Environment Development
8. Southern Economist
9. Indian Economic Review
10. Indian Journal of Medical Microbiology

**Other Indian Periodicals:**

1. Brand Reporter
2. ICFAI Journal of Applied Economics
3. ICFAI Journal of Accounting Research
4. ICFAI Journal of Applied Finance
5. ICFAI Journal of Audit Practice

**International Journal :**

- 1 . Nature Biotechnology (Subscription gifted to College by Alumni)

**WEBOPAC access from the Website:** We had earlier made the entire Library database first accessible from the College LAN and now this year made the entire database accessible from the College website also. This ensures availability of information geographically from anywhere and at any time. All the above activities increased the use of the Library resources and thus yielded a good return on investment.

**21. Number of new Books / Journals subscribed and their value:  
EXPENDITURE IN LIBRARY (2007-2008)**

	<b>Expenditure on Books (in Rs.)</b>	<b>No .of Books</b>	<b>Academic Journals (in Rs.)</b>	<b>Reading Room (in Rs.) Magazines &amp; Newspapers)</b>	<b>TOTAL (in Rs.)</b>
Aided Courses	3,12,784.95	1169	11,882.00	36,148.00	<b>3,60,814.95</b>
Self Financing Courses	3,51,584.38	586	46,099.00	12,483.00	<b>4,10,166.38</b>
U.G.C. Development Grant XIth Plan	39,471.00	63	30,126.50	Nil	<b>69,597.50</b>
<b>TOTAL</b>	<b>7,03,840.33</b>	<b>1818</b>	<b>88,107.50</b>	<b>48,631.00</b>	<b>8,40,578.83</b>

**22. Number of courses for which students assessment of teachers is introduced and the action taken on student feedback:**

Feedback system i.e. students assessment of teachers is existent in our college for all the courses conducted by the college, since several years. The feedback is always discussed with the Principal by each individual faculty and necessary action is taken at the Individual level / Departmental level / Institutional level.

We may like to reiterate at this point that the mike system fitted into all the big class rooms is the out come of the feedback system.

**23. Unit cost of education:**

Total Cost of education per student in 2007-2008 was Rs. Rs 15800 for the **aided section.**

Total cost of education per student in 2007-08 was Rs 11689 for the **unaided section (self financing courses)**

**24. Computerization of administration and the process of admissions and**

**examination results, issue of certificates:**

Attendance compilation of students throughout the year, part of admission process and entire examination result compilation work through out the year were done by using computers in the year 2007- – 2008.

College is trying to achieve complete Automation of Office work.

**25. Increase in the infrastructural facilities:**

**Building Infrastructure Enhancement :-**

- Analytical chemistry Lab for MSc. Part II was added (new construction)
- Organic Chemistry Lab for MSc. Part II was added (new construction)
- One small office cabin and a safety cabin were for Chemistry Department
- In spite of facing space crunch at our premises, we tried our best to bring about increase in the infrastructural facilities by **efficient time management**.

Also the work on our extension building measuring (12000 sq.ft.) was completed by May, and it will further ease our space requirement for the next year.

**Electronic infrastructure / equipments enhancement:**

- Chemistry Lab:

Fuming cupboard

- Computers and Software were purchased
- Computer Peripherals like LAN cards, hard disc etc. were purchased
- Antivirus software “AVG 7.1 “ was ordered

**26. Technology Up gradation:**

- **WEBOPACK access from the website:** we had earlier made the entire Library data base first accessible from the college LAN and now this year made the entire database accessible from the college website also. This ensures availability of information geographically from anywhere and at any time.
- Computers in the office, computers of various department, computers in the staff room ,and computers of Library are connected by LAN , facilitating information exchange, and document transmission. This also facilitates sharing of expensive resources like laser printers .
- Additional internet connections were provided.

**27. Computer and internet access training to teachers and students:**

- Almost all the teachers in the college are computer savvy.
- Computers and Internet access are provided to teachers freely. Almost all teachers are conversant with the internet usage. Many faculty members are utilizing this facility to provide additional information to the student on various topics. In this connection it may be mentioned that the students of T.Y.B.Sc. Physics organized an e-exhibition called “Our Universe.” on cosmology .In this event the participating students used internet facility all through. (best practice..)
- ACP student-group was given training in e-communication .in the month of March 2008
- Students are allowed to use the computers & internet facilities under the guidance of teachers.

**28. Financial Aid to Students:**

Following are the list of financial aid provided to students during academic year 2007-08.

<b>CATEGORY</b>	<b>TYPE OF ASSISTANCE</b>	<b>NO OF ASSISTANCE</b>
SC	Scholarship- Lower income group limit Rs. Below 1 lakh	69
	Freeship -Higher income group above 1 lakh	64
NT	Scholarship- Lower income group limit Rs. Below 1 lakh	14
	Freeship -Higher income group above Rs. 1 lakh	3
OBC	Scholarship-Lower income group limlt Rs. Below 1 lakh	34
	Freeship-Higher income group above Rs.1 lakh	28
SBC	Scholarship-Lower income group limlt Rs. Below 1 lakh	3
	Freeship-Higher income group above Rs.1 lash	5
ST	Scholarship-lower income group limlt Rs.Below 1 lakh	0
	Freeship-Higher income group above 1 lakh	5
General	Adoption Scheme	10
General	Association of Non-government colleges (ANGC)	11
CIDCO	Financial Asst. to Needy and BC Students (University Of Mumbai)	5
Scholarship	<b>TOTAL</b>	<b>251</b>

About 15% of Total Strength of Aided Section benefited.

**29. Activities and support from the Alumni Association:**

College website contains a section for Alumni registration and contact. Many ex-students have joined Alumni Association of our college on line.

QC ALUM, formed to strengthen Alumni Association of VES, is making efforts to register the association with Charity commissioner so that it may function independently.

The **Microbiology Alumni Association (MAA)** of our college is very strong. The activity and support from this association are commendable. **Other Departments** of the institution are also trying to formally constitute their own alumni association.

Occasionally Ex-students are invited to make presentations on selected topics in which they have gained experience during their working years. The Alumni of the department of Computer Science extended their hand in preparing the students for campus recruitment and provided them efficient career guidance

During sports days and college trek our expert alumni helps in efficient conduct of the events.

During our annual cultural fest and college day function our best singers of yester years are invited to perform. Our young alumni, who are doing very well in media world, were invited to judge some of the events of the college fest. Some times our alumni help the present student groups to train in dance, dramatics etc to perform in inter college festivals/competitions.

The institution acknowledges with gratitude the yearly Contribution of 150 dollars by **one of our alumni** from the department of Micro Biology towards sponsorship of "Nature" magazine in the library for the benefit of all.

Ex-students of Physics department who passed out in the year 2006 made monetary contribution towards the departmental library for students. Also the same batch of students has formally constituted the Alumni Association of Physics department.

Ms. Beena Panchal (**Alumnus, VES Dept of Psychology**) from IMS gave an interesting perspective on the various career options that are available after completing one's graduation in Psychology.

**Alumnus of our college, (from Department of I.T.)** Mr. Harbir conducted an electronic communication training program for ACP students group.

**Students of 2004-05 IT batch** developed a software, which help the students, to conduct their annual festival 'Sagacity'.

**30. Activities & Support from the Parent -Teacher Association:**

Formal Parent Teacher Association does not exist for our college. However, college keeps in touch with Parents through orientation meetings and departmental meetings.

**31. Health Services:-**

- A well-equipped Gym is existing in the college premise for the staff members.

**32. Performance in sports activities:**

Performance and participation in sports activities improved remarkably in 2007-2008. Following is the record of students achievements in sports:

**Participation at University Level**

- College Volleyball Team (Women) reached the Quarter Final of Inter-collegiate Tournament organized by University of Mumbai.
- College Volley-Ball Team (Men) won runners up position in the intercollegiate tournament organized by ICL college, Vashi.
- College Badminton Team (men) reached the semi final of the intercollegiate tournament organized by the Mumbai University .
- Mr. Sunil Karve (SYBCOM) secured 3<sup>rd</sup> position in Taikondo organized by Mumbai University.
- Mr. Manish Kumar (S.Y.B.Sc.) secured 5<sup>th</sup> position in Triple Jump event of the Athletic meet organized by University of Mumbai.
- Men's 4X100m relay team secured 5<sup>th</sup> position in Athletic meet organized by University of Mumbai

*This year the college organized an intercollegiate Volleyball tournament for which ---*

College Volley-Ball Team (Men) won the Championship trophy.

### **Participation at College Level:**

- Annual Sports Meet,

The College organized competitions in the following events:

Badminton, Table Tennis, Carom, Chess, Volleyball,

Basketball, Athletics, Cricket. Many students participated with enthusiasm.

*A throw ball match was also organized for teachers of the college.*

Many senior faculty members participated in this match and thoroughly enjoyed the game.

### **33. Incentives to outstanding sportspersons:**

Best Player, Best Athlete awards for girls and boys were given to encourage outstanding sports persons.

- “Best Player” in overall sports activities.

Mr. Manish Kumar S. Y. B. Sc.

- Best Athlete”

Men: - Mr. Sachin Dahiya, T.Y.B.Com.

Women: - Ms. Richa Nagare, S.Y.B.Sc.

### **34. Student achievements and awards:**

Following are the laurels brought by our students which have done us proud

- Ms. Saranya (TYBCom) cleared the CAT exam with a percentile score of 99! She then cleared through the interview procedures and got admission in India’s well-known elite management institution, **IIM Bangalore**, for pursuing MBA program.
- Ms. Mubeena Shaikh of TYBSc (Physics) successfully cleared the **National Graduate Physics Examination**.
- Ms. Swati Bhandari of BMS was selected for the Eighth Annual All India Samsika Award for **Excellence in Marketing** for BMS students. The function was held on 16<sup>th</sup> March '08 at Samsika Academy of Brand Management at Andheri, Mumbai.

- 10 of our students came in the merit list of coveted “**Aptitude Test in Chemistry**” conducted by the Indian Chemical Society on 1<sup>st</sup> January, 2008. Mr. Aalap Mogre of S.Y.B.Sc secured the eighth rank all over Mumbai. All the 10 students were felicitated at a function held at Vaze College.
- Many of our Computer Science/I.T./Physics /BCom. Students were selected in elite organizations through rigorous entrance tests involving Aptitude test, Group discussion, Technical Interview, HR Interview etc.

#### **Co curricular/Extracurricular Activities:**

It is a matter of joy for all of us that this year also our students have shown outstanding performance in the intercollegiate cultural events. A mega contingent participated in various events and received prizes in music, dance, instrumental, fine arts and literary events. Following is the record of some of the prizes won by our students at Intercollegiate and University Level for Events organized by Association of University and different colleges of Mumbai:

:

#### **Mumbai University's 'Youth Fest '07 at the zonal level**

- Divya Rao of S.Y.IT ..... 2<sup>nd</sup> prize in classical dance,
- Indrani Basu of T.YBMM ..... 3<sup>rd</sup> prize in elocution,
- Divya Rao & Swathi ..... 3<sup>rd</sup> prize in debate.
- Amitav Ganguli of T.YBMM ... 3<sup>rd</sup> prize in instrumental.

In the final round of University Youth Fest '07,

Shivangi of T.Y.B.A. ....2nd prize in semi-classical music.

Our very popular college band A.T.K.T (Ab Tak Kahan The) performed in many Intercollegiate events and won several prizes. They won 2<sup>nd</sup> prize in '**Hindustan Times Youth Nexus**'.

Two students of T.Y.BMM Chrisel Fonseca and Vijay Krishnan Iyer won the **1<sup>st</sup> prize** in Mythological Quiz at 'MALHAR', St. Xavier's festival, which was a very tough competition.

**At Inter-Collegiate Level:**

**Microscope 2007 (K.J Somaiya College)**

Paper presentation	1 <sup>st</sup> prize	Suman Ganger (M.Sc II)
<b>Genesis (Jaihind College)</b>		
Poster Presentation (Apoptosis)	2 <sup>nd</sup> prize	Mohit Kochar & Pooja Shinde
Ad Mad Show (Biocosmetics)	1 <sup>st</sup> prize	Sanjukta Kar & Sreelaxmi

**Gyan Manthan (royal College)**

Physics Quiz	2 <sup>nd</sup> prize	Kisan Rao & Mubeena of T.Y. B.Sc
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**IT Fest of I.C.L.E.S MJ College**

Students of BSc. I.T. won the **BEST COLLEGE AWARD** and bagged many individual prizes

**Eco Festival (Jhunjhunwallah College)**

Economics T.Y.B.A. team won **1<sup>st</sup> prize**.

**35. Activities of the Guidance and Counseling Unit :-**

- College provides a platform, to the students, to discuss their personal and emotional difficulties in the form of a **counseling cell**. The counseling cell of V.E.S. College was formally started on 6th August, 2005. The initiative was taken by the Psychology department.

During the year 2007-08 several Students and few staff members took advantage of the counseling services and benefited in the areas of self-confidence, assertiveness, better study habits, parent-child relationship and stress of

examination, among others including some more complicated emotional difficulties

- The **Career Guidance Cell (C.G.C.)** of the College along with the placement cell achieved one of its best in the Academic year 2007– 2008. Over the last few years the Career Guidance cell has observed that organizations now insist on a mix of technical and soft skills training for its employees. Companies like Infosys, Polaris, WIPRO, Sun Microsystems, WNS International, CSC, Tavant and many more have incorporated soft skills into their training agenda. Cell therefore resourced people from the industry and academia to train the students from time to time in the soft skills.

The cell began with the yearly exercise called **Personal Portfolio Management** for the students.

Few sessions on **Resume building** were conducted prior to the placement drives. Mr Anil Khatri (an Ex student of our college) from **Lehman Bros**, Miss Lakshmi Mohan from **ICFAI National College** and resource people from **Air Hostess Academy --AHA** and **Mumbai Educational Trust-- MET**, visited the campus to orient our students.

An Orientation on **Careers in Media** was done by Infomedia

#### The **Activities of CGC** in a nutshell

1. Orienting the students on Resume Building as per industry requirement.
  2. Training for Group Discussions and Personal Interview from time to time.
  3. Recruitment drives as per requirement of the companies and availability of students.
  4. Refining the database of the college for direct usability.
  5. Other activities in accordance with the requirements of the students.
  6. Resourcing Lectures from time to time on various Soft Skills as well as Aptitude building topics for various careers.
- The Cell also arranged for contact sessions with counselors like Mr. Jay Rege from **Academy One** and Mr. Manmohan Kohli from **Kraft Educational Services**

on “**Study Abroad Opportunities**” especially for those students who wanted to pursue higher education.

- C.G.C. programs are conducted regularly on Saturdays to expose the students to various career options available in today’s world.
- Almost all the students of our institution are utilizing the guidance of C.G.C.

### **36. Placement services provided to students:-**

It was a year of great achievements for the campus placement programme. The number students who were placed in various companies and institution, increased considerably compared to previous years.

Jointly with the efforts of IT and Computer Science Department the Cell has provided placements in elite companies like **Accenture, Infosys, TCS, TechMahindra, Cyber Manager, Innovasoft, NIIT, Infotech, APEX Pharma, Citigroup, J P Morgan, Patni Computers, TCS, Syntel Technology, WNS Global Services, Kotak Mahindra. The organizations ICICI Bank, Bajaj Alliance, Bajaj Capital, First Source, Wockhardt Limited, HDFC, Performax Technologies, UXL Corporate Services, Minglebox.com, Bay Leaf Hospitality Pvt. Ltd, Convergys India Services** also recruited from among our students.

Our students also attended direct company placements to get recruited in Streams International, HDFC, Hexaware and in many other IT industries.

*It was decided in the beginning of the year to run the placement services on a ‘round the year’ basis for our fresh graduates as well as for the ex-students of the recent years.*

### **37. Development programme for non – teaching staff:**

Following are the list of workshop/seminar attended by some of our non-teaching staff:

1. Mr. A.J. Mangle & Mrs. R.M.Bhatia attended a regional seminar on ‘professional development of academic staff support’ organized by Hinduja college on 2007.
2. A work -shop on ‘Pay –Unit submission’ conducted on 12<sup>th</sup> August 2007.
3. Mr. Mangle participated in the workshop on ‘The Right to Information Act’ held on

10<sup>th</sup> December 2007 at Kandivli College.

4. Mrs. Mohini Vazirani attended a workshop on ‘Scholarship & Freeship conducted’ by University of Mumbai on 8<sup>th</sup> July 2008.

**38. Healthy Practices of the institution:**

- Both Teaching and non-teaching staff who have completed 25 years of dedicated service in the institution are specially felicitated by Management trustees in a gathering. They are presented with a silver medal , certificate and shawl.
- The faculty members of the college are provided at the beginning of the year with a diary, which they use to record their daily activities in the college (curricular, co-curricular and extra curricular). This serves as a log book for future reference and acts as planner.
- We have revamped the ‘Self Appraisal’ process for the faculty members from this academic year. The faculty members were required to submit ‘Self Appraisal Forms’ every year and only in few cases discussion with teachers took place. But this year ‘Self Appraisal Forms’ are used more as a dialogue tool leading to a fruitful interaction with every staff member.
- List of some best practices adopted by our institution is attached at the end.  
(The best practices mentioned in the IQAR of 2005-06 are continued this year also)

**39. Linkage developed with National /International, Academic /research bodies:**

- Some of our faculty is in constant contact with the academics of elite ‘**Tata Institute of Social Science**’. Mumbai. Dr. (Ms.) Rajani Kunantambigi from this institute was invited to present a seminar on “Psychology of Learning” on 16<sup>th</sup> October 2007 as part of FIP.
- Department of Physics is in continuous contact with **IAPT** .It conducted a program for Physics students under the banner of IAPT (Best Practice pr. 9 2006-07)

Department of Economics every year conducts its annual program “A.D. Shroff Memorial Elocution” under the banner of **Forum for Free Enterprise** Mumbai (Best Practice)

**40. Any other relevant information the institute wishes to add:**

Ref (Pages 10—15) & (pages 57—60)



## Part C

### EXPLAIN THE PLANS OF THE INSTITUTION FOR THE NEXT YEAR.

Our college will strive for enhancement of Quality in every aspect in the year 2008-09 and in the years to come.

Following are some plans of the institutions for **next year**.

1. The department of psychology is proposing to start a **personal development program** for U.G. students that will train students in the use of important life skills like decision making, problem solving, interpersonal skills, stress management skills and basic skills of counseling

The course objectives are to train the candidate at two levels.

**Level I:** Self-Awareness and Personal Growth

**Level II:** Basic Counseling Skills

2. A state level conference on **environmental studies** is being planned by the IQAC of the college .The conference will involve several departments of the college and will be interdisciplinary in nature.

3. The Psychology Department of our college proposes to start Certificate and P.G. Diploma Course in Special Education

#### **Aims of the Course**

- To sensitize the students about various disabilities
- To study early child development
- To learn the various techniques related to special education in various disabilities with special emphasis on learning disability
- To get oriented with various diagnostic and interventional modalities related to learning disabilities

4. **Women's development cell** of our institution organized several beneficial activities for the students of our institution this year. The cell has many activities planned in the agenda for next academic year 2008-09, one of which is

- introduction of **‘self defense for women’ program** for students of our college. This program is about 60 hrs duration and provides a holistic training not only for physical self defense but also legal literacy and stress management. The institution proposes to make it compulsory for the first year students. The WDC also plans to initiate a special cell for socially backward girl students.
5. A proposal for a month long staff development program is in the offing. The aim of the program is to empower teachers with requisite professional skills in order to enhance the quality of teaching.
  6. We would like to encourage students to do more exploratory work in various subjects through Additional Credit Program.
  7. A number of faculty members have sent proposals for research projects and are waiting for affirmative reply from respective funding bodies.
  8. The ‘Language enhancement circle’, The placement cell, The ‘R&C circle’ would strengthen their activities.
  9. Institution proposes to provide internet facility to the staff as well as students on a larger scale
  10. Acquisition of additional space.

A new wing is being constructed to provide additional space to our institution. This extension work is in the last phase of construction and we expect the construction work to be completed and premises be made available for the coming year.

Availability of additional space will facilitate

#### **1) LIBRARY EXPANSION**

Our college has grown horizontally and vertically over the last 5 years with the introduction of several new UG and PG courses. Considering the increasing information needs of the users and keeping in mind our mission to provide quality education to the students, we have decided to expand and shift our College Library to the fourth floor. The new library is being planned and designed presently to accommodate more than 200 readers in the reading room with separate section for PG students and Teachers, Internet access terminals and a photocopy section. The increased space and new location will help us provide value added services to our students and staff.

**II) STAFF READING ROOM**

**III) COUNSELING ROOM FOR STUDENTS.**

**V) MORE LECTURE ROOMS**

**VI) LANGUAGE LAB**

**V) MATHEMATICS LAB**

**COORDINATOR IQAC.  
IQAC.**

NAME:-

SIGNATURE: -

**CHAIRPERSON**

NAME:-

SIGNATURE:-

While we **continued** with the best practices mentioned in the previous years (Ref. AQAR 2006-07) following are some of the practices introduced in 2007-08.

### **Best Practice 1**

#### **A Pilot Program by the ‘language Enhancement’ QC**

**TITLE** : Towards better communication in English language

**GOAL** :

- To help a group of our students, who have studied in their earlier years in vernacular medium, develop better communication skill in English language.
- To help enhance self-confidence among the participants.

*This was a pilot program.*

**PROCESS** :

- Process started with a ‘pre program test’ to check the level of the students before undertaking the course
- Syllabus of the module was developed by a committee of experienced faculty members from various departments. In this connection expert suggestions were obtained from Squadron leader (Retd) Mr. K.N.Sharma , a communication expert from Delhi.
- The course was scheduled for 6 weeks, two days per week, two hrs per day. ,a total of 22 to 24 hrs.
- A group of students from S.Y. B.Sc., who were keen to join the

program, were selected.

- A series of interactive sessions were organized.
- Sessions consisted of question answers, discussion, role-play, brain storming etc
- Each of the interactive sessions was conducted by a team of a senior facilitator and a student facilitator
- Students were encouraged to read news paper in English and discuss the current issues
- Many question papers with interesting questions were prepared and given to the students to write the answers.
- At the end of the program a post program test was conducted to test the improvement in their performance.

**IMPACT:**

- Students were motivated to read and communicate in English language.  
The test result showed improvement
- The success of the program was manifested in a better comprehension of English language, communication ability and higher confidence level among the participants.

**DIFFICULTIES:** In order to make the program successful it is necessary that the number of students in the group should not exceed 25.

To make the program available to all needy students therefore the number of facilitators required is considerable. However, it is difficult to find facilitators.

## **Best Practice 2**

### **Industrial visit**

#### **Department of Microbiology & Biotechnology**

- GOAL**
- a) Application of theoretical knowledge into practice by understanding working & applications of sophisticated instruments
  - b) To learn about opportunities for Microbiology / Biotechnology graduates in various Institutes / Companies

- PROCESS** :
- A weeklong educational visit to Delhi was arranged from 12<sup>th</sup> November 2007- 18<sup>th</sup> November 2007.
  - Students of TYBSc and MSc visited various Institutes and the University
  - In addition local visits to various institutes were also arranged.

- IMPACT** :
- The group had strength of 34students.
  - The places that they visited were JNU, IARI, AIIMS, ICGEB and NIMR
  - They observed working of various sophisticated instruments like DNA sequencer, Micro-arrays, FACS, EACS, HPLC, GC, PCR, FLOW cytometer, MALDI-TOF etc

**RESOURCES** :University/ Institutes where the students were taken.

- REMARKS** :
- Students were exposed to latest technologies used in their fields.
  - The students got acquainted with the latest trends in the Industry and research sectors.

## Best Practice 3

### Department of Physics

**TITLE** : Exhibition on “Our Universe”.

**GOAL :**

- 1) An extension activity done by T.Y.B.Sc. – Physics students related to the subject “cosmology” that they study in the class.
- 2) To acquaint non- science students and faculty with a picture of the present understanding of our universe.

**PROCESS:**

The exhibition was open for one day from morning 9.00 a.m. to evening 4 p.m. 6 computers were connected to internet and short movies on the following topics were shown with appropriate explanations by T.Y.B.Sc. Physics students.

- 1) The Big – Bang Theory of the beginning of universe.
- 2) Birth and death of a star.
- 3) Red giants and white dwarfs.
- 4) Black hole.
- 5) Launching of a satellite.
- 6) Mars expedition.

Some posters were also put up to explain some relevant terminology as well as conventional units used for cosmological measurements.

**IMPACT :**

Students and teachers of Commerce, Arts and Science visited and had given a Very encouraging feedback. Some students from neighbouring Diploma College also came after hearing about it.

**PROBLEM FACED:**

Internet availability throughout the day was required since they

were not down loadable movies. Special arrangements had to be made for uninterrupted net availability.

