

# ANNUAL INTERNAL QUALITY ASSURANCE CELL REPORT

## 2010 - 2011



## St. Xavier's College

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## **PART – A**

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

### **THE PLAN OF ACTION INVOLVED:**

- The institutionalization of the systems of Autonomy as academic autonomy was granted to St. Xavier's College, Mumbai in June 2010 - the first undergraduate college to be granted Autonomy in the University of Mumbai.
- Conscious Adoption of the learning goals outlined in the Bloom's Taxonomy.
- The setting up of Quality practices in tune with the autonomy systems and the enhancement of preexisting best practices.
- Documentation of all quality mechanisms of the college to ensure excellence of education

Hence, the plans for 2010-11 focused on the introduction of the autonomy systems, setting up of new Quality mechanisms and the execution of pre existing quality practices, followed by documentation.

### **PLANNED AND EXECUTED**

#### **a. Autonomy related :**

- Academic calendar for the year as per the newly introduced semester system was drawn up.
- The Board of Management, Academic Board, Boards of Studies of the various departments, Finance Committee, Purchase Committee and Examination Committee were set up and meetings conducted.
- A Controller of Examinations was appointed – Dr. Hoshang Masters
- The credit system for all courses was constructed and adopted taking into consideration certain principles Refer 38A & 38B
- Syllabi for all the First Year Degree Courses were drafted and validated by the various Boards.
- Two new First Year Courses were designed and conducted - Interdisciplinary Environmental Studies in the first semester and Giving Voice to Values in the second – for students of all faculties
- The pre-existing Social Involvement Programme of the college was modified to enable all First Year students to gain an enriching experience while earning two mandatory non academic credits
- A faculty committee was set up to monitor the involvement of students in extracurricular activities as they earned two mandatory non academic credits

#### **b. Practices introduced that related to the Teaching learning Process:**

- Study Packs: essential readings, drawn from different sources not available in our library, to cover the syllabi were prepared
- Increasing use of ICT in the teaching-learning process, including Video-Conferencing, LCD presentations, Internet Connectivity etc in designated Multi-Media rooms and the use of LCD presentations in all classrooms was further encouraged
- Moodle training workshops for all faculty were conducted

**c. Practices introduced to ensure Quality Assessments :**

- Blooms Taxonomy: Learning Objectives were adopted for Paper Setting by designing grids by
- Presentation/Assignment Evaluation Grids: making clear the criteria for assessment were designed and adopted
- Answer Papers were masked before Assessment
- Rules for Moderation of Assessment through External Examiners were set up and moderation completed
- Students were given a feedback on their Performance – display of papers (in groups of 10).
- Photocopy of the Answer Paper and/or Challenge evaluation of the Paper was available.
- Results of each course and each department were statistically reviewed

**d. Faculty development programmes conducted:**

- Faculty Seminars and workshops for skill building were organised
  - Workshop on ‘Criteria for Continuous Internal Assessment’ July 2010
  - Workshop : ‘Reviewing Autonomy Systems’ August 2010
  - Seminar in Khandala : ‘Organisational Behaviour – Team Building and Teacher – Leader’ October, 2010
  - Seminar- Aspects of Autonomy March 2011
  - Seminar: ‘Curriculum Development’ April 2011
- Orientation of new faculty to the Jesuit traditions, the principles and culture of St. Xavier’s, teaching and assessment methodologies based on the Bloom’s taxonomy and an introduction to the TAQ administered by the college was planned and conducted. Faculty mentors also attended the workshop.
- An Orientation Workshop for new faculty was conducted on 30<sup>th</sup> June & 1<sup>st</sup> July
- Senior faculty members of the department mentored the new faculty in accordance with the formalized mentor program of the college and conducted Sit Ins

**e. Student development programmes conducted:**

- Orientation Programmes for F.Y.B.A., B.Sc, B.Com., B.M.M., and B.M.S. and M.Sc Biotechnology students
- The Honours Programme for the academically better students, consisting of 8 extra credits, earned over the 3 years, including an introduction to research continued
- Fieldtrips and Guest Lectures made academics more experiential.
- Summer Internships helped students gain experience of industry and the corporate world.
- The Yearly Department Khandala Seminars for student presentations were held
- Department Journals for student articles were published
- Additional courses for interdisciplinary work were conducted
- External expertise was made available to students through college and department organised seminars and workshops

- The development of language and soft-skills through the Language Lab, special communication skills courses and through participation in extra-curricular activities was encouraged
- Students were Mentored by Faculty, in groups assigned to each of the latter

**f. Research promotion:**

- The inaugural issue of the annual Peer-Reviewed Research Journal by the College Faculty was published and released in December 2010
- Research infrastructure was developed
  - Renovation of laboratories
  - Setting up additional research facilities/up gradation of existing facilities
- The Faculty research Seminar held in February 2011 facilitated sharing and promoting research. Four faculty members(2 Arts and 2 Science) presented their research work
- Faculty applied for University, State & Central Government and UGC funding for research projects
- College awarded a faculty member with a Research Prize for the high quality of his scientific research
- Faculty made several Oral and Poster Research presentations at Conferences and seminars

**g. Globalization efforts**

- The college had increased tie ups with foreign universities
- Faculty and Students visited several foreign universities on International Exposure programmes: University of California, Berkeley, New York University, USA, Harvard University of Bath UK
- The admission of foreign students to courses on Campus increased cultural diversity.
- The college hosted international seminars

**h. Additional support services to students**

- Library facilities were further improved which included the availability of INFLIBNET. Several new books and CDs were purchased and new subscriptions of journals started.
- Services of a well-established Counselling Centre for Aptitude Testing and Career guidance for students and Personal Counselling of students and parents helped many.
- The Placement Cell gave training in the soft skills needed for Applications and Interviews and facilitated interaction with the Corporate world leading to several student placements
- Special efforts at Inclusive Education through the XRCVC, disabled-enabled campus, the Pathways Programme with Ford Foundation, Scholarships for the Disadvantaged through the Student Beneficiary Fund were highly successful
- The Department of Inter-religious Studies encouraged dialogue with and sensitivity to other religious traditions in the world.
- The Language Lab with a full time faculty member, helped upgrade language skills of several students

**i. Parent interaction**

- To increase parent involvement in college activities several parent teacher meetings were held.
- Parents were also invited for and attended the Student Orientation Programmes at the beginning of the academic year

**j. Alumni involvement**

- Eminent Alumni were involved in visioning for and in assisting the college in its activities through the Advisory Council set up by the college.
- Efforts were made to increase the alumni data base and increase communication between the college and its alumni
- An alumni lunch was held in London in May 2011 which was attended by the Principal of the college, eleven faculty who were visiting UK as part of a faculty development programme and a large number of UK based alumni
- The Alumni Association organised an At-Home programme for the newly graduated students of the College
- Alumni helped with Placements of students, served as guest speakers and resource persons, financial contributions etc.

**k. Collaboration with Civil Society**

- The college hosted several conferences, talks etc as collaborations with civil society
- An important event hosted by the college was the ‘Town Hall’ event where the President of USA Barack Obama and his wife Michelle Obama spoke to College students: November, 2010



**l. Infrastructure was further developed**

- Animal Tissue Culture Lab – CIF
- Solar powered Computer Labs
- New Classroom for BMM
- New Office for B.Sc IT
- Staircases
- Canteen Washing Room

**m. Efforts to build the College Corpus Fund**

An alumna Anu Aga contributed Rupees one crore towards the college corpus fund

**n. The Quality mechanisms of the College were documented – Refer 38D**

## **PART – B**

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

St. Xavier's College looks upon itself as an academic community where scholars - both students and teachers - have the freedom and responsibility to communicate, evaluate and enlarge humanity's store of knowledge. The College stands for academic excellence and endeavours to create an environment, which generates a love of learning, habits of critical thought and of accurate expression. It strives after character formation based on the love of God and the service of the human, with a view to training citizens who are remarkable for all-round development, for a sincere commitment to God and country and who lead lives that are socially meaningful.

**St. Xavier's College thus endeavors to contribute to the necessary transformation of the prevailing social conditions. This transformation envisages that the principles of social justice, equality of opportunity, genuine freedom and respect for religion and moral values, enshrined in the Constitution of India, shall prevail, and that all humans shall live in keeping with their human dignity and self-respect.**

#### **The Goals and Objectives of the College are:**

- **The transformation of society through teaching, research, publication and extension services.**
- **To build a world of inter-religious dialogue and solidarity, where discrimination is done away with and the needs of all are respected and fulfilled.**
- **To address the practical concerns of our students of finding productive and socially relevant occupations.**
- **To provide equal access and opportunities especially to disadvantaged groups like the minorities and those socially, educationally, economically and physically disadvantaged.**
- **To challenge ourselves, staff and students, to strive for excellence.**

These goals and objectives are stated clearly in our College Handbook, received by every student at the beginning of the year. They are also stated unambiguously on our website at [www.xaviers.edu](http://www.xaviers.edu). We highlight them in our College Anthem, the College Magazine and in numerous activities organized by the College, including in the day to day lectures.

- With these goals and objectives in mind, St. Xavier's College conducts socially relevant programmes for the enrichment of students. To enhance the academic standards and to give greater choice to our students, the College offers Self-Financing Courses like: Degrees in Media and Management: BMM and BMS, BSc. in Information Technology, Postgraduate course in Biotechnology, Diploma courses in Forensic science and Cyber Forensics, Post-graduate Certificate Course in Clinical Research.
- To keep pace with the current academic trends as well as with technological advancements the college periodically reviews its performance by eliciting feedback from teachers, students, parents, alumni, those connected with industries and the general public. Their responses are evaluated. Based on these results and in a phased manner, the **infrastructure**, the **learning technology** and the **teaching-learning** process are upgraded.

Over the last few years the college has focused on attaining world-class infrastructure. Fiberglass boards and drop-down screens have been provided in each classroom, so that with portable Overhead and LCD Projectors, along with Laptop computers, every class is potentially



I.T. enabled. Our Biological Science Laboratories have been excellently equipped through the DST/FIST Programme. An expanded, state-of-the-art Knowledge Centre with Video Conferencing Facility provides access to computers and to the Internet has been provided for some years and. The Fell Gymkhana is now better equipped to promote physical well-being and sports. The SCAVI and MMR are fully-equipped audio-visual centres to keep pace with the latest learning technology. A Language Laboratory helps us develop language skills in English, French & Hindi.

### **(A). SOCIAL INVOLVEMENT PROGRAMME (SIP)**

The social involvement programme started in July 1996, with the aim of making education more socially relevant. The core concept of the programme is to help the students to be socially conscious and responsible. Indian society today is being ravaged by many destructive forces such as inequality, poverty, unemployment etc. The youth today have the ability to examine and analyze these ills and to realize their roles in shaping a new society. Through this programme, our students are expected to harness their latent abilities and knowledge for constructive purposes. All students in the autonomy system have to complete at least 60 hours of the Social Involvement programme to ensure that students are sensitised to the lives and needs of the less fortunate members of society and also contribute/ give back to society. For this they will be awarded two mandatory non academic credits. The students began these activities in the first year. Trained social workers have been appointed and they coordinated the activities which included grading journals maintained by the students. The activities were designed to stimulate thought and raise valid questions about socio-economic realities.

As part of the SIP the students of the college are placed with the different community welfare and social organizations. The students volunteer at these organizations by doing various tasks assigned to them such as assisting in teaching, reading to the blind, imparting non-formal education, helping senior citizens and so on. Through this work there is a hope that our students become better, more caring and concerned human beings. With autonomy coming into effect from this year onwards, the SIP programme had 862 students who participated in this programme with an addition of approximately 550 honors students. SIP is collaborated with nearly 165 organizations to give our students an understanding of social reality and an opportunity to interact with people and situations that demand our concern, compassion and whole hearted involvement.

In the beginning of the year, sessions on Social Analysis were conducted for the students where they were given an insight into various social issues. The SIP department also conducted 4 camps in the academic year in Songadh and Valsad in Gujarat and Ambatta in Nasik. These were mainly educational camps aimed at teaching tribal children basic English. The core objective of the camp was to build social work perspectives among students through interaction with the marginalized sections of society. Around 250 tribal children from remote villages benefited from this camp. Innovative methodologies such as songs, poems, rhymes, drama etc. were used to teach these children.

Through the Social Involvement Programme we hope to train young minds to become conscious of the fact that we are all an integral part of our social structure and hence are equally responsible for its destruction or its resurrection.

## **(B). SOCIAL SERVICE LEAGUE (SSL)**

- Blood Drives: The SSL tied up with the Malhar Social Cause Campaign and a two day blood drive was conducted in early August. The second blood drive which was conducted in January. Over the two blood drives, 689 donors donated a total of more than 700 units of blood
- Every Sunday, a small group of enthusiastic SSLites went to Cheshire Home -the residents are paraplegic men who have amazing stories to share. The Cheshire team spent time with the inmates during Diwali the festival of lights and celebrated with singing, dancing, playing and food.
- A new concept of the SSL was G. I. Joe. This project was started with a long term vision to make an impact on the environment from within Xavier's. Differently coloured bins were given to the canteen for segregation of kitchen garbage into dry and wet waste. An experimental vermicompost pit was started behind the hostel building, generating a couple of bags of compost. The Joe team also made progress with another sub-project called The Bicycle Project. Cycles were collected from around the city, repaired and cleaned up, and then given to schoolchildren in a village at Palghar, Maharashtra. Thirteen bicycles were donated and the students were chosen on the basis of academic profile, financial needs and distance travelled between home and school every day.
- Project Care :Areas identified: Navjeevan Centre and Our Lady of Dolours School as two NGOs. Every week 20-35 volunteers went out to these centres and taught the children Maths and English, followed by creative sessions that stimulated the children's thinking. This culminated in a two day event in December where the kids came to Xavier's and spent the weekend with their didi/bhaiya, taking part in all the activities and workshops.
- At the SSL Exhibition there were around 200 visuals spread across over 30 socially relevant issues. The 'SSaLe' section had stalls from the SSL and other NGOs. The SSL stall had souvenirs made from old calendars, invitation cards and other recyclable products.
- Rural Camp, the popular SSL project, was a ten day camp where fifty SSLites went to a village for ten days of manual work which would directly impact the community in some way. This year the task was to level a patch of land for cultivation.
- Students worked with Smoke Free Mumbai, creating awareness about the hazards of smoking and the laws surrounding smoking. They also ran a petition signing campaign on the days of Malhar where were collected more than 2000 signatures from college students against the lenient laws around smoking in public and low taxes on smoking.
- There were workshops supplementing Project Care and Rural Camp and a talk by an executive from Childline.

## **(C). THE HONOURS PROGRAMME:**

St. Xavier's College has been a pioneer institution for innovative teaching methods. The Honours programme aims at challenging the highly motivated and academically better students.

The College launched the "Honours Programme" in the year 1985-86. An additional certificate (with details of ratings and credits) is given to those students who successfully complete the programme by getting 8 credits or more over the 3-year degree course. The credits and the activities are distributed over the three years. Each department plans its own Honours Programme activities with definite credits for each activity. Since 1999, participation in the Social Involvement Programme (SIP) has been made compulsory for students who wish to



qualify for the special Honours certificate of the College. The SIP involves work with an NGO in the city or in the rural areas under the guidance of the SIP Co-coordinator, and this is equivalent to one full credit. Some of the activities of the Honours Programme are:

1. Presentation of papers and seminars on current events.
2. Assignments on related non-syllabi topics.
3. Research projects.
4. Lecture courses on topics related to the subject but going beyond the syllabus (to give a firm grounding in the subject).

Each of these activities has its own credits and grades given to the students on the basis of their performance. For each of these activities in the respective departments professors are entrusted with the work of coordinating their tasks with the overall Honours Programme coordinator for that department. In turn, the departmental coordinator provides these details to the Vice-Principal for Academic Improvement, who is the one overall in-charge of the entire programme. This is a special post created by St. Xavier's College, which oversees such academic initiatives and ensures quality and excellence.

The Programme has enabled students to present papers at seminars, to carry out independent research projects, to get admission into reputed institutions in India and abroad and Corporate India has acknowledged the quality of our students by showing a preference for them.

The activities of honours programme carried out by each department for the last academic year (2010-2011) are highlighted below:

## **DEPARTMENT OF ECONOMICS**

### **STUDENTS:**

Total number of students registered (FY, SY, TY): 250

Total number of qualifying students: 85

The activities offered were either organized by the faculty, with assistance from members of the Department's Student Association, viz., the Economic Circle, or were designed individually by students under the guidance / direction of one of the department faculty members.

### **THE ORGANIZED COMPONENT OF THE PROGRAMME:**

A lecture series was conducted by Prof Piya Mitani (an alumnus of LSE) on the topic 'GLOBALIZATION AND RESOURCES'. Through this course, students were made to critically deliberate on the changing consumption rate of resources in the globalized era as well as have discussions on the direction and impact of the resource flows. Nearly 80 students (SY and TY) actively and successfully participated in this course.

Students were encouraged to participate in economically relevant or related courses conducted by the Mathematics and Statistics Departments. Those students who presented papers at the NEOTHESIS Seminar (a collaborative effort of the Economics and Sociology Departments of the College) were graded so as to enable them to secure a credit for the Honours Programme.

To encourage learning-by-doing, the Department offered credits to students for volunteering to put together the 'ECO-FEST', for organizing the Lalit Doshi Lecture and Debate Competition, lectures by Narendra Jadhav, Jean Dreze and Swaminathan Iyer and for editing the Department's Annual Journal (the *Artiniti*). Many students took advantage of this offer and were thus eligible to earn a credit for the Honours Programme. The department also conducted tests in Microeconomics (FYBA and FYBSc) and Macroeconomics (SYBA and FYBSc) to give students a chance to gauge the depth of their economic knowledge.

This year the annual seminar was conducted with a difference, as the majority of the students were selected to present their papers in auditoriums of the Jamnalal Bajaj Institute of Management Studies, Mumbai and a few students presented their papers in the College Villa at Khandala. Those students, who could not present their papers at these venues, gave a *viva voce* and thus secured their grades. This year a Workshop on 'Paper Writing' was woven into the Khandala component of the seminar. The student participants were given certain articles to review and a topic to write a paper on. This session has helped students in understanding the various aspects of critical writing.

A Summer School was conducted for the FY and SY students based on the theme 'Food Security Issues'. Thirty students participated in this course and were enriched by the lecture inputs given by experts as well as by the trip to villages in Madgaon Taluka, Raigarh District, Maharashtra.

### **THE INDIVIDUALLY DESIGNED ACTIVITIES OF THE PROGRAMME:**

Many students, under the guidance of a faculty member reviewed a book or a collection of articles related to economics. Some of the books reviewed were Gurucharan Das' 'India Unbound', Joseph Stiglitz's 'Free Fall' and Kalpana Sharma's 'The Rediscovery of Dharavi'. Certain students who worked with Jean Dreze and helped in surveying the NREGA programmes (during their summer break) have been encouraged to write on their experience and prepare a report on their findings and their personal learning and thus secure a credit for the Honours Programme.

This year about 85 students will be conferred the Honours Programme's Certificate, with nearly 80 % of them securing an 'A' Grade.

### **CO-ORDINATOR:**

Dr. Agnelo Menezes

## **DEPARTMENT OF FRENCH**

### **STUDENTS:**

Total number of students registered (SY, TY): 10

Total number of qualifying students: 3

### **1. WORKSHOP ON WORLD CONTEMPORARY CINEMA.**

A workshop was organized on world contemporary cinema. Five films across different continents and belonging to the period 2000-2010 were screened. The screening was followed by a lecture series where various aspects of the films were discussed: globalization, urbanization and its influence on Afro-Asian societies, globalization and spread of consumerism, globalization and changing role of the woman. The students had to write an assignment on the same.

### **2. FRANCOPHONE LITERATURE**

Prof. Judith Mirashi Barak, Associate Professor, Dept of English, University Paul Valery, Montpellier, France spoke to the students about Francophone literature and the Caribbean region. This was followed by a two day lecture series by a francophone writer of Indian origin from Mauritius, Anandadevi, at Cercle litteraire which was attended by the students. The students selected different aspects of francophone writing viz. Indian diaspora in Mauritius, question of feminine identity, mythology and role of women, magical realism.

### **CO-ORDINATOR:**

Ms. Alpana Palkhiwale

## DEPARTMENT OF HISTORY

### STUDENTS:

Total number of students registered (SY, TY): 10

Total number of qualifying students: 6

The Department of History registered students from the Second and Third year only with a view to phase out the Honours Programme from the academic year 2010-2011.

Six students from the Department of History qualify for the Honours Programme at the Convocation to be held in 2011: Divya P, Malvika Bhatia, Tanya Noronha, Tanvi Gupte, Siddhi Deshpande and Anushree Deshpande.

### SUMMARY OF ACTIVITIES HELD IN THE ACADEMIC YEAR 2010-2011:

Students engaged in academic activities that ranged from:

- Self-study projects based on their personal preferences.
- research on the History and architecture of heritage Churches in around Mumbai that belong to the Archdiocese of Bombay
- a workshop in Research Methodology organized by the Heras Institute of Indian History and Culture,
- the Annual Seminar of the Department of History on the Theme :The City in History
- report on the archaeological excavation they participated in along with the Deccan College of Archaeology, Pune in Haryana.

### SEMINAR: THE CITY IN HISTORY.

In a departure from the annual seminar held at Khandala this year the History seminar was held in the Seminar Room of the College. Seven papers on themes connected with historic cities or aspects of their history or the communities that inhabit them were presented.

Divya P: *Port and River Nexus*

Siddhi Deshpande: *Lothal –rediscovering the ancient Port City*

Anushree Deshpande: *Benares: A Pilgrimage City.*

Tanvi Gupte: *From city to university – the journey of Nalanda*

Heena Pereira: *Kanayakubja –the lost city*

Malvika Bhatia: *The birth of a metropolis: early Bombay*

Tanya Noronha: *Madras: Anglo-Indian Nostalgia.*

### CO-ORDINATOR:

Dr. Ms. Fleur D'Souza

## DEPARTMENT OF POLITICAL SCIENCE

### STUDENTS:

Total number of students registered (FY, SY, TY): 55

Total number of qualifying students: 15

The honours programme at St. Xavier's College helps and guides students into diverse fields of studies and enriches them with a wide range of knowledge that is essential in a globalized world which poses enormous challenges. This year, we organized several activities and workshops as a part of our honours programme and enabled our students to understand the numerous issues unfolding in the world scenario.

We started the year with a workshop on the 18<sup>th</sup> September, 2010 on **‘Protecting Traditional Knowledge in the age of Globalization’**. The resource person for the workshop was Dr. Kannamma Raman who is a Reader in Public Administration in the Department of Civics and Politics, Pherozechah Mehta Bhavan and Research Centre, University of Mumbai. Dr. Kannamma gave us an overview of the challenges that traditional knowledge faces in a world where information transfer is available and how indigenous people are unable to use their own knowledge when an International Patent Regime is enforced on this enormous wealth of knowledge. The issue of patents, copyrights and other intellectual property protection mechanisms were discussed in this workshop.

Students were divided into groups and discussed the questions like: **Are there certain goods that should never be bought and sold for money? Should children be given monetary benefit by school for reading? Are incentives like patent required for innovation? What other incentives can be given? Do you think knowledge must be ‘open’ as the software movement is trying to do?** Students were later asked to prepare reports on the workshop and on their perspective on the topic.

The annual group seminar for the FYBA and the SYBA was held on the 15<sup>th</sup> and 16<sup>th</sup> of December, 2010 at St. Xavier’s College. Group presentations were made using power point and documentaries. Groups of FYBA students made presentations on **‘Scams in India’** and **‘the Taliban’**. The three groups of SYBA students also made presentations via documentaries on **Vidarbha, Migration in Mumbai** and **The Media as the fourth Pillar of Democracy**.

The annual Khandala seminar was organized on the 6<sup>th</sup> to the 8<sup>th</sup> January, 2011 at the St. Xavier’s Villa. Group presentations were made by the third year students covering issues like: **Emerging Powers in the World –G-8 to the G-13, The Naxalite Movement and Public Interest Litigation**.

The second year students made individual presentations on a variety of national and international political topics like: **Political Censorship, Azad Kashmir, Bhopal Gas Tragedy, Central Bureau of Investigation in India, the Gorkha Movement, India Youth and Politics, Article 370, Repressive Laws in India, Belgaum Border Dispute, A Critical Analysis of the India Constitution, National Emergency- 1975 To 1977, Common Wealth Games, Displacement Of Persons, LTTE, Mill Workers In Mumbai, Rigid Framework Of The Indian Constitution, And Geopolitics**.

This seminar saw some healthy discussion and good interaction among the students.

#### **CO-ORDINATOR:**

Ms. Aruna Sundaresh

### **DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY**

#### **STUDENTS:**

Total number of students registered (FY, SY, TY): 108

Total number of qualifying students: 27

#### **ACTIVITIES:**

##### **ANTHROPOLOGY OF MEDIA**

Conducted by Sonia Nazareth.

The aim of the course was to give students an exposure to a range of non-western media activities and events, through which to engage in a critical interrogation of media theory itself.

## **MEDIA AND SOCIETY**

Conducted by Nazreen Fazalbhoy and Geeta Sethu.

The course looked at different aspects in which the media needs to be understood and interrogated. It covered issues of representation such as the construction of stereotypes, discussed viewpoints on the question of media influence, and investigated the patterns of ownership of media and the impact of this on how the media actually operates in the society. The course also looked at some of the new technological changes such as the internet and its impact.

## **PEOPLE AND THE ENVIRONMENT**

Conducted by Sunetro Ghosal.

This 8-session lecture series centered on the 'environment'. These lecture provoked students to think critically and encouraged them to think beyond the 'perceived obvious'. It drew on several lines of thought to provide a cross-disciplinary canvas to explore ideas of the environment.

## **READING AND WRITING SOCIAL SCIENCES**

Conducted by Kimberly Dixit and Veeranka Shah.

"Reading and Writing Social Sciences" was an interactive, reflective and skill based workshop. The workshop imparted practical skills to students on how to read, sift through information and think about the Social Sciences, with an emphasis on Sociology and Anthropology. This workshop also touched upon writing as a means to express a coherent thought process.

## **WORKSHOP ON ENVIRONMENTAL JUSTICE**

Conducted by Gina Hickman.

The workshop explored the impacts and causes of environmental degradation and possible activism in the area of environmental justice. It also involved student -exchange (via video conferencing) with students in Canada. This was a collaborative workshop with Wilfrid Laurier University, Canada.

## **THEORY AND PRACTICE- TRAINING AND DEVELOPMENT**

Conducted by Tilottama Dutta.

This workshop showed students how theoretical knowledge can be connected with professional practice in training & development.

## **THE ANNUAL DEPARTMENT SEMINAR**

This was held in Khandala was based on the theme of **Transnational Processes and the Marginalized**. It witnessed students presenting papers that had a base both in theory and reality. The focus being on the marginalized in any given context, the topics covered a wide range.

## **SUMMER PROGRAMME ON CULTURES OF SERVITUDE**

Conducted by Kimberly Dixit

This course made students explore cross-cultural and cross-temporal Cultures of servitude so as to make them understand the dynamics of these relations – how they are created, maintained, experienced and perhaps dismantled.

## **DEPARTMENT OF BOTANY**

### **STUDENTS:**

Total number of students registered (FY, SY, TY): 14

Total number of qualifying students: 10

Following Projects were undertaken by the department staff in the year 2010-2011.

### **STUDY OF MONSOON FLORA OF PLATEAU OF FLOWERS (KAS, DIST- SATARA)**

Guide: Dr. Rajendra Shinde

Number of Students registered: 1

Number of credits: 2

Kaas plateau is a part of Sahyadri range in western ghats in district Satara. The place is full of diverse plants specially herbs and shrubs with flowers blooming during rainy and early winter seasons of the year. The diversity of flora is due to the characteristic wind, rainfall and lateritic soil factors prevailing in the area. The herbaceous flora is very short lived and most of the plants are ephemerals. The students visit was for 3 days to the 'Kas' plateau from 1<sup>st</sup> to 3<sup>rd</sup> October 2010. Many post graduate students and research scholars of Botany Department also came for the field study. They visited areas like Thoseghar which has many waterfalls; Chalkewadi where there is scenic beauty of flowery carpets and also many windmills; and Kas Lake which is little below the Kas plateau. The students observed, studied, photographed, and documented the plant species and understood their taxonomical characters, ecological status and economic importance's. The students got the opportunity to see some of the rare, endemic, endangered plant species and also some insectivores plants that are not easily located elsewhere. The students saw many rare plant species like *Drosera indica*, *Drosera burmanni*, *Ceropegia jainii*, *Smithia agharkari*, *Pleocaulus ritchiei*, *Oberonia falconeri*, and many others. The honours student also made notes on the anthropogenic factors affecting the flora and fauna of Kas plateau as recently there are many people coming and spoiling the area. The students studied the characteristics of plant using written literature on plants and prepared a report on the same.

### **A PRACTICAL COURSE ON BIOINFORMATICS**

Guide: Mr. Alok Gude

Number of Students registered: 6

Number of credits: 1

The course on Bioinformatics included using internet, searching various databases for information on genes, proteins, diseases, medicine, gene maps, sequences of DNA and proteins, domains and structures of bio-molecules, genetic diseases, cancers, etc. The practicals were undertaken using NCBI interactive website for the study of various aspects of Bioinformatics. The exercises included retrieving information on a particular gene or protein using NCBI; using BLAST for comparing nucleotide and protein sequences with the other similar sequences available in the various molecular biology databases; using primer BLAST which helps in designing primers for PCR template; using Cn3D for viewing the structure, sequence and alignment of biomolecules; using cancer chromosome databases to search cytogenetics, clinical and reference information on various cancers; using OMIM component to search and study the Mendelian inheritance of traits in man and the disorders associated with it. The students were given problems to solve using the above mentioned bioinformatics tools.



## **A LECTURE SERIES ON BIOPHYSICS.**

Guide: Mr. Chintamani Pai

Number of Students registered: 5

Number of credits: 1

This programme comprised of a lecture series on ion channels and the physics in biology. The course emphasized the importance of physics in biology. The other part involved the study of pore forming proteins that control the voltage gradient across the plasma membrane and thus help in transfer of ions. The voltage activated channels also mediate conduction across synapses. The channels studied were voltage gated sodium, calcium, potassium and proton channels. The students were given problems to solve and topics for referencing and discussion.

## **MOLECULAR BIOLOGY TECHNIQUES**

Guide: Mr. Alok Gude

Number of Students registered: 6

Number of credits: 2

The project was undertaken specially for TY.BSc students so that they may become acquainted with the basic techniques of molecular biology and their use in various studies. The students learnt many techniques in this project, i.e. isolation of genomic DNA from human blood, isolation of plasmid DNA from E.coli, PCR technique, digestion of DNA fragments using restriction enzymes, transformation of E.coli bacteria, growth curve, and finally gel electrophoresis. The students got hands on experience with the gel documentation system, cooling centrifuge, PCR thermocycler, laminar air flow cabinet, water-bath shaker incubator, etc. The programme culminated with a written report.

## **CO-ORDINATOR:**

Mr. Alok Gude

## **DEPARTMENT OF CHEMISTRY**

### **STUDENTS:**

Total number of students registered (FY, SY, TY): 85

Total number of qualifying students: 27

The year 2010 – 2011 was the first academic year of autonomy at St. Xavier's College. In spite of the challenges that came with autonomy the Department of Chemistry had an overwhelming response for the Honour's Programme. The Programme was run in two phases, one for the SY and TY students under the regular norms and a second phase especially for the FY

A brief summary of the various activities that were successfully completed is listed below.

### **I LECTURE SERIES: PERFUMERY:**

Mr. Yusufi Bagasrawala, an external resource person, conducted this programme and enlightened our students on basics of perfumery, including the perfumery families, extraction procedures and regulations involved in this industry. The evaluation was on the basis of a formal test as well as an assignment.

## **II LIBRARY WORK:**

Professor Surabhi Potnis and Dr. Zueb Filmwalla gave our students opportunities to probe areas and topics beyond the syllabus that caught their interest, guided them with collating information and presenting the same in a creative manner.

## **II GUIDED PROJECT WORK:**

Several small groups of students benefited a lot from this activity which was conducted on several topics by the department staff. The students were first given input sessions; reference work was expected from them followed by experimental work. The evaluation was on the basis of interaction, a written report and an oral presentation.

### **A] ANALYTICAL TECHNIQUES**

Prof. Surabhi Potnis conducted this activity, which involved practicals using instrumental and non-instrumental methods.

### **B] DRUG ANALYSIS**

Dr. Geeta Kotian and Professor Saima Khan planned this activity, wherein the students did a detailed study of a few selected drugs. The study included reference work and experimental work.

### **C] ENVIRONMENTAL CHEMISTRY WITH EMPHASIS ON SOIL ANALYSIS:**

Professor Marazban Kotwal and Dr. Ashma Agarwal made our students aware of several aspects of soil analysis including some analytical techniques.

## **III LITERATURE SURVEY:**

Prof. Marazban Kotwal had a group of students do a literature survey on “the applications of thermodynamics to Life Science” and creatively write an independent report on the same.

## **IV BOOK REVIEW:**

Prof. Gulshan Shaikh helped students select a reference book on Chemistry or related to Chemistry. The book chosen was read and reviewed by the student. The presentation that was made on the review was indeed very enriching and creative.

## **V INTERDISCIPLINARY STUDIES ON ENVIRONMENT ISSUES:**

Four of our students participated in this activity which gave them a rich understanding of several issues about environment.

## **VI. CHEMISTRY IN FORENSIC SCIENCE:**

Professors Riva Pocha and Samyukta along with other experts offered this activity for our FY students. As expected this activity attracted a huge response and the students that had enrolled for this was exposed to a thrilling journey of forensic studies where several topics were covered. Some of them were blood patterns, toxicology, firearms, explosives, alcohol, etc. A ‘ Mock Crime Scene’ was also created to enable the students to understand the application of these concepts.

## **CO-ORDINATOR:**

Ms. Gulshan Shaikh

## DEPARTMENT OF MATHEMATICS

### 1. TOPOLOGY

Prof. Mangala V.M., University of Mumbai

It introduced the basics of Topology and Analysis which is the core of pure mathematics. Normed linear spaces, metric spaces, completeness and connectedness were some of the topics covered in depth.

### 2. FINANCIAL MATHEMATICS

Prof. Poornima Raina, University of Mumbai, Dr. Urmilla Pillai, CHM college

In this course, students were introduced with the concepts of probability, stocks, options and pricing of options with respect to the important branch of today's applied mathematics- the Financial Mathematics.

### 3. SEMINARS

During this year, seminar sessions were conducted in the college itself instead of at Khandala. Three students made presentations at the seminar.

### CO-ORDINATOR:

Ashok Bingi

## DEPARTMENT OF MICROBIOLOGY

### STUDENTS:

Total number of students registered (FY, SY, TY): 63

Total number of qualifying students: 11

### ACTIVITIES:

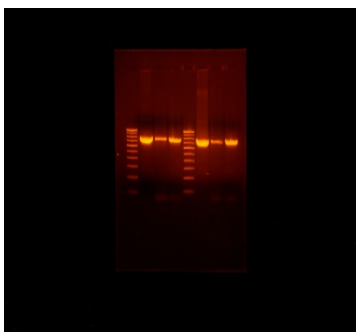
#### 1. WORKSHOP ON POLYMERASE CHAIN REACTION TECHNIQUES:

Guiding teacher: Prof. Miriam Stewart and Prof Sangeetha Chavan

Class: S.Y.B.Sc and T.Y.B.Sc.

Number of students: 14

A hands-on workshop on an important molecular biology technique was conducted in the second term. The students were evaluated on the basis of their involvement, skills developed during the workshop and a quiz for 1 credit.



## 2. MINI EXHIBITION:

Guiding teachers: Dr. Vivien Amonkar, Prof. Miriam Stewart, Prof. Sangeetha Chavan and Prof. Karuna Gokarn.

Class: F.Y.B.Sc and S.Y.B.Sc.

Number of students: 19

“μ- EXHIBIT”-the department’s annual exhibition which was held in July 2010 covered varied aspects of MICROBIAL BIOTECHNOLOGY, i.e.- Environmental biotechnology , Industrial and Food biotechnology, Agricultural biotechnology, & Medical biotechnology. The students made use of charts & models to highlight the basics & advances in Microbial Biotechnology.

*Acquired Drug Resistance, Biofilms, Emerging and Reemerging Diseases, Monoclonal Antibodies, Modern Diagnostics, Food fermentations and Preservation, Wine and Bread production, Dairy Microbiology, Bioplastics, Biofuels, Microbial leaching of ores, Bt Cotton, Mucofungicides, Petroplants, Biological Nitrogen fixation* were some of the exhibit themes. The students were evaluated on the basis of their exhibit content, presentation skills and a viva for 1 credit.



## 3. WRITTEN ASSIGNMENTS, VIVA AND POWER POINT PRESENTATIONS:

Guiding teachers: Prof. Miriam Stewart, Prof. Karuna Gokarn, and Prof. Sangeeta Chavan

Class: F.Y.B.Sc (written assignment) and S.Y.B.Sc (Viva & Presentation)

Number of students: Assignments submitted - 13 - and Viva and Presentation held - 05

Students submitted detailed written assignments on varied topics. This was followed by a

viva and power point presentations. Topics included were Genetic engineering and its applications, Autoimmune Diseases, Vaccines, Cloning Vectors, Preventive Microbiology, Monoclonal antibodies, Animal tissue culture etc. These activities were evaluated for 2 credits.

This year too the department insisted on handwritten assignments along with a short viva. Many students who registered for this module did not submit assignments. A few of the submitted assignments were brief and of poor quality while there were others which were very well written.

#### **4. WORKSHOP ON BIOASSAYS OF PENICILLIN AND VITAMIN B12:**

Guiding teacher: Prof. Karuna Gokarn

Class: S.Y.B.Sc

Number of students: 15

The workshop was aimed at training the students for the pharmaceutical world. They were taught the theoretical and practical aspects of this technique with a rigorous training schedule. The students were evaluated on the basis of a laboratory test and a written report for 1 credit.

#### **5. OPEN ENDED PROJECTS OF STUDENT'S CHOICE**

Guiding teacher: Prof. Sangeetha Chavan

Class: S.Y.B.Sc.

##### **a) Study of the action of antimicrobial agents on organisms producing biofilms**

NO. OF STUDENTS: 03

##### **b) Transformation in bacteria using plasmids**

NO. OF STUDENTS: 04

#### **6. BIOTECHNOLOGY MODULE:**

Guiding teacher: Prof. Karuna Gokarn

Class: F.Y.B.Sc.

Number of students: 22

This module taught basic techniques used in general biotechnology.

This included-

a. SOLID WASTE MANAGEMENT-cultivating edible mushrooms on straw

b. STUDY OF ANTIMICROBIAL PROPERTIES OF HERBS AND SPICES. A variety of spices and herbs were tested-pepper, turmeric, licorice, basil, mint, and clove. These were found to have good anti- bacterial properties. The entire\_module was evaluated for 1 credit based on all techniques learnt and a written report.

#### **7. SUMMER INTERNSHIPS:**

Fifteen students spent their summer vacation training at Pathological Laboratories in various Hospitals, while one student trained at Intas Pharma, another at Bharat Serum and still another at IIT Mumbai.

#### **8. SEMINAR ON 'INFECTIOUS DISEASES – STAYING AHEAD'**

Students attended the above seminar and wrote out a report of the presentations made.

Evaluators: Dr. Vivien Amonkar and Prof Sangeetha Chavan

Class: T.Y.BSc

Number of students: 09

#### **CO-ORDINATOR:**

Ms. Miriam Stewart

## DEPARTMENT OF STATISTICS

### ACTIVITIES:

#### 1. MARKET RESEARCH PROJECT:

Antony Fernandes, Research Executive, Hansa Research Group

It introduced the concept of market research and students were taught how to design a questionnaire, conduct a sample survey and learn techniques of data analysis.

#### 2. A BEGINNERS COURSE IN SPSS:

Saju.V.George, S. Annapurna & Piyali Unnikrishnan Department Of Statistics, St. Xavier's College

SPSS is statistical software designed for the social sciences and currently used in all fields especially when the data is voluminous. The students were taught how to input, tabulate & analyze data using this package.

#### 3. GEOGEBRA:

Dr Chowdhary, TIFR

GeoGebra is free and multi-platform dynamic mathematics software for learning and teaching. This software is for all levels of education that joins arithmetic, geometry, algebra and calculus. It offers multiple representations of objects in its graphics, algebra, and spreadsheet views that are all dynamically linked. The idea behind GeoGebra is to connect geometric, algebraic, and numeric representations in an interactive way. The students solved various numerical problems using this software.

#### 4. OPERATION RESEARCH USING EXCEL- SARAH VAIDYAN, HUMAN CONSULTING CAPITAL

In this course students were introduced to the techniques of solving numerical problems of Operations Research using MS Excel. Topics included Linear Programming, Assignment and Transportation problem.

#### 5. PERT- CPM: A Simulation Exercise

Prof .J.B.Mistry, Ex-HOD Physics Department, St. Xavier's College

In this course students were introduced to the application of Network analysis to industries like Automobile, Cinema etc.

#### 6. INTRODUCTION TO DISCRIMINANT ANALYSIS:

Ms. Geeta Zankar Senior Consultant at Cartesian Consulting

This course introduced students to techniques of discriminant analysis with interactive lecture sessions, quiz, laboratory sessions, and projects.

#### 7. FINANCIAL MATHEMATICS:

Sanjeev Gupta, Reserve Bank of India

A lecture series that covered the following topics ; time value of money, loan schedules, project appraisal , monetary & fiscal policy, inflation, exchange rate, basis of capital market, IPO book building, introduction to derivatives & value at risk.



## **8. DATA ANALYSIS USING VARIOUS STATISTICAL PACKAGES:**

Dr Chowdhary, TIFR

Usage of ICT in statistical applications is widespread. In this coursework students were provided a first hand experience of handling survey data and the various methods of analyzing survey data using the open-source and freely available R language, and the various in built functionalities of the front-end R.K.Ward. No prior programming skills were expected.

## **9. MUMBAI ROAD TRANSPORT PROJECT:**

Antara Ganguly & Anwesha Dalberg

Dalberg, a market research firm had taken up a project for World Bank to conduct a study on “Helping make Mumbai public transport more responsive to women’s needs “. Data was collected, analyzed & presented by our students for Dalberg.

## **CO-ORDINATOR:**

Ms. Piyali Unnikrishnan

## **DEPARTMENT OF MASS MEDIA**

### **TOPIC: CORPORATE GOVERNANCE AND ETHICS**

The course offered a thorough understanding of corporate structure and ethical behaviour.

NUMBER OF CREDITS: 3

### **COURSE CONTENT:**

<b>9<sup>th</sup> August 2010</b>	<b>Understand concepts of Ethics and Morality</b>
<b>23<sup>rd</sup> August, 2010</b>	<b>Development Of Individual Ethics</b>
<b>30<sup>th</sup> August, 2010</b>	<b>Ethical Decision Process Making</b>
<b>13<sup>th</sup> September, 2010</b>	<b>Observation of long-term consequences of ethical dilemmas</b>
<b>20<sup>th</sup> September , 2010</b>	<b>Understanding framework of professional values, ethics and attitudes</b>
<b>27<sup>th</sup> September, 2010</b>	<b>Understanding importance of good corporate governance</b>
<b>6<sup>th</sup> December, 2010</b>	<b>Different Approaches to Corporate Governance by various companies</b>
<b>13<sup>th</sup> December, 2010</b>	<b>Different Laws made by the Government to better corporate governance.</b>
<b>10<sup>th</sup> January, 2011</b>	<b>Understanding way in which companies are managed</b>
<b>17<sup>th</sup> January, 2011</b>	<b>Application of legal knowledge to solve business problems</b>
<b>14<sup>th</sup> February 2011</b>	<b>Corporate Governance in Various Multinationals</b>

**THE RESOURCE PERSON:**

**Mr. Rakesh Tumare**, General Manager, MTNL Broadband Services from CIMA (Chartered Institute of Management Accounting)

**THE COURSE: SUMMARY**

Corporate Governance and Ethics is an increasingly important area of business today. It is important for companies to be accountable to people, to the government and most important of all to themselves. Ethics is a gray area but it is something which is of such relevance that a breach of it can have catastrophic consequences. Companies not only have an economic responsibility towards society but they have a social responsibility as well. There is a fine balance between doing what is morally right and doing what is morally good.

Starting from the Cadbury Committee to the Combined Code to the Sarbanes – Oxley Act, there is an increasing pressure on companies to conform rules and be more ethical in their behavior. It is imperative that companies do not fake their account their books and disclose financial details from the public because most people depend on the corporate sector for employment and if the businesses flounder due to financial instability it will result in a catastrophe which can even lead to an international crisis like the one seen in 2008 and lead to recession and widespread unemployment.

Thus, Corporate Governance and Ethics helps us to better understand the companies themselves and helps companies be morally strong and ethically correct. Due to a number of breaches by companies, most governments are forced to set up standards for them to follow. Some companies may be philanthropic and actually care for the customers, but most just think of the bottom line and don't care who stands in their way.

**THE COURSE IN DETAIL:**

We learnt that Ethics is an increasingly important facet of someone's personality which helps him take better decisions at the corporate level to improve the decision making ability at the corporate level. We solved a number of cases wherein ethical dilemmas were given and the students had to choose the best possible solution

Later, corporate governance was introduced in which is in short, behaving ethically at the corporate level. We learnt about Corporate Governance in short and looked at the various provisions for it by UK government like the Cadbury Committee, the Combined Code on which most Corporate Governance policies are based on in most countries.

A number of case studies were taken of failure of corporate governance at international levels like Enron, RBS, Parmalat, Lehmann Brothers wherein there was a failure of proper check and hoe the companies have tried to improve since.

The knowledge learnt was later put to use in trying to solve a lot of simulation cases as given by the professor which helped in an accurate understanding of corporate governance

**INTERDISCIPLINARY COURSE IN ENVIRONMENTAL SCIENCES****STUDENTS:**

Total number of students registered (FY,SY, TY): 13?

This interdisciplinary environmental honour's programme encompassed students from various departments like Sociology, Botany, Chemistry, Life Sciences, Microbiology, and Physics.

The course began with an inaugural lecture by the well known environmentalist Dr Anish Andheria who encouraged and enthused the students to involve themselves with environmental

issues like global warming, loss of biodiversity etc. This was followed by a series of lectures on the history of environmental movement, trees of Mumbai, water pollution, microbial testing of water, remote sensing etc. Students performed experiments on water pollution testing parameters in the departments of Life Sciences and Microbiology.

The students exhibited charts and posters for the Environment day exhibition, 13<sup>th</sup> Jan 2011 in the college hall. The exhibition was inaugurated by Mr. Robert Swan, the only person to have walked to both the poles. Students also attended nature trails at Sanjay Gandhi National Park as part of a tie-up between St. Xavier's and Sanctuary Asia magazine as a Green Karbon Programme. They participated in a one day environment awareness programme conducted by Eureka Forbes at St. Xavier's College. The honour's course ended with a one day visit to the Dharavi slums. All the enrolled students completed the course.

**CO-ORDINATOR:**

Dr. Seema Das

**INFORMATION LITERACY**

**STUDENTS:**

Total number of students registered (SY, TY): 7

InfoRmation Literacy is considered the 4<sup>th</sup> essential R after Reading, WRiting and ARithmetic. An information literate person can, Search, Retrieve, Evaluate and Use relevant information in a correct and efficient manner. It is a skill required lifelong, but not formally taught in academic courses.

The course was started for One Transfer Credit in the year 2008-09.

In the year 2010-11, seven students joined and earned one credit. It was coordinated and conducted by the Librarian. The project was to compile a bibliography of Reference Sources in Print available in the College Library on a select subject and also a few websites related to the subject.

**CO-ORDINATOR:**

Ms. Medha B. Taskar

**D). HUMAN VALUES AND THE ENVIRONMENT**

The college has introduced two new courses into the autonomy system Giving Voice to Values and an Interdisciplinary Environment Studies Course. These are 3 credit courses which all First Year students have to undertake.

**2. New academic programme initiated (UG & PG):**

As the college was granted academic autonomy from June 2010, the credit semester system was adopted for all First year degree courses of the college. A credit system for all the faculties – Arts, Science and Commerce was drawn up. New syllabi were designed by the Board of studies of the various subjects/ departments of the college for these courses and validated by the various Boards under the autonomy systems.

**3. Innovation in curricular design and transaction:**

- The autonomy systems of the college have adopted the learning goals outlined in Bloom's Taxonomy. This is reflected in the design of the syllabi, teaching learning pedagogy and assessments.

- With academic autonomy, syllabi were designed by the Board of studies of the various subjects/ departments of the college for all First year degree courses. Each syllabus was designed with learning outcomes and had the Continuous Internal assessment mode for each course specified. ie Assignment/ Presentation/ Quiz etc. Further, a grid specifying the percentage and mark allotment, with respect to the learning goals outlined in Bloom's Taxonomy, in the End Semester Examination paper was also added. Further, Grids outlining the criteria and weightage to be used for assessment of assignments and presentations were discussed and institutionalised.
- Department-wise innovative programmes conducted through Honours Programme are listed above under Honours programme activity in Item 1.C
- Further, an Honour's Programme in Information Literacy was conducted by the Library and the Interdisciplinary Course on Environment Issues involved lectures, practicals and an exhibition.
- Faculties of the college were also involved in innovations in curricular design and transaction at the University level and at the department level. See Item 38 C

#### 4. Inter-disciplinary programmes started:

In keeping with the College's long tradition of encouraging close interaction between various departments/units on campus, the academic year 2010-11 witnessed numerous academic activities of an inter-disciplinary nature.

- **Academic Autonomy**  
Under Autonomy all first year students have a 3 credit course in Interdisciplinary Environment studies in the first semester and a 3 credit course in Giving Voice to Values in the second semester.
- **Contribution of the Honours Programme**  
The Honours Programme of the College has for long fostered inter-disciplinary inquiry and work. All departments that run the Honours Programme allow their students to collect up to 25 per cent of their credit requirements by being involved in an Honours activity organised by another department. This has fostered closer interaction between different subject disciplines.  
Some of the inter-disciplinary programmes of the current academic year that were organised by different departments are given in detail in Item 1C especially the Honour's Programme in Information Literacy and the Interdisciplinary Course on Environment Issues

#### 5. Examination reforms implemented:

- Appointment of a Controller of Examinations
- Appointment of an Examination faculty committee to oversee the examinations
- A semester based assessment pattern involving 40% for Continuous Internal assessment and 60% for End Semester Assessment/ Examination
- The Continuous assessments included Assignments, Presentations, Quizzes, Exhibitions etc – all designed to develop and assess different skills.
- Grids that outlined the criteria of assessment for assignments and presentations and assigned weightages for each were designed and adopted. This ensured an objective assessment and also provided the students with a 'feed forward' and feedback mechanism.

- An outline of the End Semester Examination Paper with respect to the learning goals of the Bloom's Taxonomy system was submitted with the syllabus of each course and this was adhered to during the setting of the final papers.
- The answer papers were masked before the assessment
- Centralised Correction was carried out in an air conditioned facility
- Moderation of Assessment through External Examiners
- Feedback to students on their Performance – display of papers (in groups of 10).
- Photocopy of the Answer Paper and/or Challenge evaluation of the Paper was made available to students
- A Statistical review of the results of each course was carried out
- A mark sheet for each semester was designed with course codes, names of subjects, credits and Grade points for each course, SGPA and CGPA

**6. Number of candidates qualified: NET/SET: No information available**

**7. Total Number of Seminars/workshops conducted:**

**BY THE COLLEGE**

- Orientation Programmes for F.Y.B.A., B.Sc, B.Sc - IT – 24<sup>th</sup> June
- Orientation workshop for New Faculty – 30<sup>th</sup> June & 1<sup>st</sup> July
- Orientation Programmes for F.Y.B.M.M, B.M.S
- Faculty workshop on 'Criteria for Continuous Internal Assessment' – 7<sup>th</sup> July
- Workshop for FY BMM on 'Media Foundation Course in Audio & Video technology' – 12<sup>th</sup> July
- Workshop on the revised syllabus of Economic Entomology in collaboration with the Board of Studies in Zoology, University of Mumbai – 21<sup>st</sup> July
- 2 day workshop on 'Befriending the Museums" in collaboration with the Museum Society of Bombay. – 5<sup>th</sup> & 7<sup>th</sup> Aug.
- Faculty workshop : Reviewing Autonomy Systems" – 18<sup>th</sup> Aug
- Workshop on 'Behaviour Change'(Psychology Department) – Dr. Melita Vaz – 27<sup>th</sup> – 29<sup>th</sup> Aug
- Workshop on Terracottas in India (AIC Department) – 3<sup>rd</sup> & 4<sup>th</sup> Sept.
- State level Seminar under Ford Foundation's Pathways on 'Problems faced by Disadvantaged students in Higher Education' Program – 4<sup>th</sup> Sept.
- Workshop on 'Qualitative Research Methods' by Ms. Toru Jhaveri – 4<sup>th</sup> & 5<sup>th</sup> Sept. (Psychology)
- Workshop on 'Team Building' by Ms. Jehanzeb Baldiwala & Ms. Shamin Mehrotra – 4<sup>th</sup> & 5<sup>th</sup> Sept. (Psychology)
- Workshop – 'Administration and Development' for its Honours Programme (Political Science Department) – 18<sup>th</sup> Sept.
- Workshop – 'Conflict Management' by Ms. Lavina D'Souza - 18th & 19th Sept.
- Workshop – 'Counselling Skills for Successful Living by Ms. Trinjha Khattar - 18th & 19th Sept.

- P.C.R. workshop under Honours Program for SY & TY students (Microbiology) – 29<sup>th</sup> Dec.
- Seminar on ‘Infectious diseases: Staying ahead’ – 6<sup>th</sup> Jan (Microbiology & Biotech)
- Seminar – themes: The City in History and ‘Religion & Culture in Medieval India’ (History) – 14<sup>th</sup> Jan
- Seminar on ‘Career in IT & Technology’ by Dr. Sarang (IT department) – 22<sup>nd</sup> Jan
- Faculty Research Seminar – 10<sup>th</sup> Feb
- Staff Seminar : 30<sup>th</sup> April

### **SEMINARS, LECTURES AND WORKSHOPS ORGANIZED BY THE DEPARTMENTS FOR THE STUDENTS OF HONOURS PROGRAMME**

**Ref to Item no 1C**

## **8. Research Projects:**

**Dr. Ujwala C. Bapat** Dept. of Botany

**UGC Grant** “Phytochemical analysis and antimicrobial activity of a few plants belonging to family Euphorbiaceae” Rs.10,84,800/-

**Dr. Rajendra D. Shinde** Dept. of Botany

**Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra, through Agarkar Research Institute, Pune.** “Digitized Inventory of Medicinal Plants Resources of Maharashtra” Rs. 23,40,710/-

**Dr. Sheela Dande** Dept of Life Science

**BRNS-DAE Govt. of India** funded research project on “Cloning of Cellulase genes and their expression in *Denococcus radiodurans*” continued until April 2011.( At the Caius Research Laboratory) Rs. 4,60,350/-

**Industrial Project - Lignoil Technologies Pvt. Ltd** “Industrial Production of Biofuel from cellulosic waste” Rs. 13,00,000/-

**Dr. Ms. Vivien Amonkar**

**UGC Minor Research Grant** : “Microbial Synthesis and characterisation of silver nanoparticles.” Rs. 1,05,000/-

**DBT-ICT-Centre for Energy Bioscience Project** “Characterization of cellulase produced by micro-organisms growing on specific cellulose substrates” Rs. 25,000/-

**Dr. Madhuri Hambarde**

**Mumbai University:** “To study the Effect of DL-menthol on Fertility of Male Rats” Rs. 15000/-

**Dr. Z. A. Filmwala**

**University of Mumbai Teachers Minor Research Grant**

## **9. Patents generated, if any: -----**



### 10. New Collaborative Research Programmes:

**Dr. Ms. Vivien Amonkar** : Project –in – charge of the M.Sc part II project proposed and funded by the DBT-ICT Center for Energy Biosciences, Mumbai “Characterization of cellulase produced by micro-organisms growing on specific cellulose substrates” carried out by Basil DMello –The project was co-guided by Dr.Annamma Anil , Assistant professor of the centre

### 11. Total Research grants received from various agencies:

- Same as given in Item No. 8

### 12. Number of Research Scholars:

Year	PhD-Arts	PhD-Science
2010-11	4	21

### 13. Citation index of faculty members and impact factor:

#### 1. Dr. Z. A. Filmwala

‘Synthesis and biological activities of N-Azetidinyl and Thiozolidenyl phenyl substituted 3(2H) Pyridazinone’

Z. A. Filmwala and S. Bhalekar *Indian journal of Heterocyclic chemistry*, Vol 20, July-Sept. 2010. Pp 93-94.

#### 2. Prof. Ajay Patwardhan :

“Euler characteristics” in the International Mathematical Union Proceedings of ICM 2010

#### 3. Ms. Karuna Gokarn

“Siderophores and Pathogenecity of Microorganisms” in the Journal of Bioscience & Technology, Vol 1 (3), 2010, 127.134

**4- 14: Publications featured in XPOLRE, Xavier’s Research Journal, Vol 1, Issue 1 December 2010**

#### 4. Bapat, Ujwala & V. Godse

Antibacterial Activity of Ethanolic Extracts of Bark, Leaves and Flowers of *Plumeria Acuminata* Ait.

#### 5. Cabral, Conrad, C. Pai, K. Prasade, S. Deoghare & Urooz

Effect of Gravitational Stress on Microbial Growth

**6. Chavan, Sangeetha & Elcina Lobo**

Survival Of *Lactobacillus Sp* in Simulated Gastric Environment, in Association With Prebiotics And in Tomato Juice To Study Its Probiotic Potential

**7. Gokarn, Karuna & D. Kalgutkar**

Biosorption Of Industrial Dyes Using Dead Fungal Biomass

**8. Havaladar, Freddy**

Synthesis of Some New T Synthesis of Some New Triazolo – Thiadiazoles and their Qualitative Structure – Activity Relationship (QSAR)

**9. Samant, Hrishikesh & S. Khanolkar**

Correlation between Srtm Dem and Altitude Extracted from Night Time Thermal Ir Landsat 5 Data – A Test on Mumbai City Area.

**10. Sethna, Bakhtawar**

A Note on the Petrology of the Deccan Volcanic Province of Nagpur Area, India

**11. Shinde, Rajendra, R. Singh, K. Mhatre & S.Cerejo**

Chasmophytic Flora of Bassein Fort (Thane District), Maharashtra, India

**12. Kumar, Radha**

Buddha's Doctrine of Universality – Its Relevance in the Globalised World

**13. Menezes, Agnelo**

The Poor and Food Insecurity

**14. Rane, Anita**

Teachings of *Sant Muktai* and Other Women Mystics of the *Varkari* Sect in *Vaishnavism* of Maharashtra

**14. Honors/Awards to the faculty: ----**

## 15. Internal Resources Generated:

<i>Source of funding</i>	<i>Quantum (Rs.)</i>
Donations	<b>1,36,36,006.00</b>
Fund raising drives	
Alumni Association	
Consultancy	-
Self-financing courses	<b>Loss: 3,21,113.05</b>
Any others: Certificate Courses	<b>1,20,000.00</b>
Total	<b>1,31,94,892.95</b>

## 16. Details of Departments getting SAP, COSIST/DST, FIST etc., assistance/recognition: ----

## 17. Community Services:

### a) Social Involvement Programme SIP: Item A

### b) Social Service League: Item B

### c) Xavier's Resource Centre for the Visually Challenged (XRCVC)

The Xavier's Resource Centre for the Visually Challenged (XRCVC), St. Xavier's College, a one of its kind support and advocacy centre for the visually challenged in India shares with you our work and achievements through 2010-2011.

In 2010-2011, the XRCVC in addition to continuing work on advocacy issues of print access, financial access and educational access also added the component of Independent Living which covers issues of consumer, transport and legal access to its field of work. In addition the XRCVC's access technology project has expanded in a range of R & D work on products; train the trainer programs and consultation services for government departments.

Our annual report below shares our work through the year under our key projects

### **XRCVC Advocacy Initiatives**

Furthering our existing endeavor to ensure an appropriate amendment to the Indian Copyright Act, 1957 to ensure the print disabled have equal access to written works the XRCVC following its representation to the Parliamentary standing committee followed up the matter with them. *The standing committee report was tabled in Rajya Sabha in November 2010 which acknowledged and ratified the concerns of the representation submitted by the XRCVC and other organizations working for the print disabled.* The said report is now to be taken up by the Copyright Office for final compilation and is due to be tabled in parliament in the coming year. This will mark a long awaited legislative change needed to open up the world of the printed word for the print disabled.

### **Rewriting the print word: Print Access**

In addition, in our publisher partnership program this year the XRCVC signed new MoUs to share accessible content with Tata McGraw-Hill Education and Jaypee Publishers. Both the agreements have enabled the XRCVC to make available educational material to students as also build on its existing collection of DAISY books. The XRCVC team also participated in DFI meetings and the International DAISY technical conference for capacity building in developing countries for making information accessible to all, including persons with print disabilities conducted in October 2010 at New Delhi by DFI. Mr. Prashant Verma, Consultant Training and Technical Support from DAISY Consortium evaluated the XRCVC DAISY creation setup and said ***“XRCVC is perhaps the only institutions which is producing full text full audio DAISY books with synthesized voice in India”***

### **Building Equal Systems: Financial Access**

The problems for equal and accessible banking for the visually impaired have been a long standing concern. The XRCVC in partnership with CII- Ability Forum was involved in creating a handbook - Banking Access for the Visually Challenged: An FAQ. Through the year the XRCVC has been involved in discussing and planning with 5-6 key banks in India to take up accessible banking initiatives. These efforts have lead to banks forming action plans for implementation in the area which we hope will be implemented through the coming year making accessible banking initiatives a core part of banking establishments.

Through the year the XRCVC has also provided support to visually impaired members troubleshoot on making banking facilities available to them whenever the same were denied.

### **Establishing Inclusive Education Practices: Educational Access**

The XRCVC has constantly engaged with various educational setups to ensure that inclusion is not only a concept of discussion in academic papers but a reality a visually impaired student is allowed to experience.

The XRCVC through the last year had been working with a student Ms Krtitika Purohit to ensure that she is permitted to sit for the entrance examination to the degree course in Physiotherapy which in Maharashtra and in most parts of India had been denied to the visually impaired. ***In the historic judgment passed by the Honorable Bombay High Court in August 2010 the first ever visually impaired student was allowed admission to a degree course in Physiotherapy (B. P. Th) based on her own competitive score in the entrance examination.*** Subsequent to the court order Ms. Kritika Purohit based on her merit secured admission in one of the finest colleges in the city of Mumbai - Seth G. S. Medical College and KEM hospital. ***Following her admission the XRCVC has been involved in providing hands on support to the college, to Kritika and to the Maharashtra University of Health Sciences (MUHS) to create rules for study and examination within the mainstream set up for Kritika and to create accessible study material for the course first time in India.***

Following the court order of August 2010 the XRCVC was also made a member of the national committee set up by the Chief Commissioner of Persons with Disabilities (CCPD) to form national level guidelines on admission, study and examination for visually impaired students to study physiotherapy and has been involved in preparing the national level draft guidelines on the said subject.

In a similar pursuit to help another visually impaired student pursue his dreams the XRCVC worked with the CBSE board to create rules for science education at the XI and XII standard so that Mr. Kartik Sawhney, a student of New Delhi could take up the science stream of studies. ***Following XRCVC's representation to the board, the board was forthcoming in issuing the necessary rules which now permit visually impaired students to take up science at the CBSE level.***

What the XRCVC hopes to achieve through these partnerships is create models of educational institutions that can practice inclusion across all their services beyond just permitting admissions.

### **Living Independently: Consumer, Transport and Legal Access**

The XRCVC this year has expanded its advocacy area to include issues concerning independent living for the visually impaired. The right for Independent Living has been well ratified under the United Nations Conventions for Persons with Disabilities (UNCRPD). 2008.

The three specific areas that the XRCVC is looking at under this head are consumer, transport and legal access. Some of the key needs identified include -remotes for a range of electrical products, TV DTH service menus, medicine packaging and labels.

To take up concerns related to the railways and the bus system the XRCVC through the year has begun a dialogue with the Western Railways and the Central Railways systems. Meetings with the respective Divisional Railway Managers (DRM) involved the XRCVC sharing with the railway board specific concerns for the visually impaired and trying to find solutions for the same. Both the boards have begun the process of implementing some of the suggestions offered to them such as checkered titling at platforms, better vigilance of the coach for the physically handicapped persons against misuse etc

With the bus transport service in Mumbai - The BEST corporation, one of the constant problems the visually impaired persons face with the service - that of identifying the appropriate bus number whilst waiting at bus stops has been taken up. The XRCVC has been working with a research team at IIT, Delhi that has developed a technology solution for this concern. The XRCVC has begun networking with the BEST Corporation to begin a pilot test for the Bus Number Identification System (BNIS) so that the same can later be taken up for an implementation plan.

In addition the XRCVC through the channels of the Honorable Bombay High Court has been working at passing legal orders that ratify the rights of persons with disabilities as enshrined in the UNCRPD and other national legislation. The XRCVC was also invited to make a presentation on accessible technologies at the court hearing presided over by the Honorable Chief Justice, Bombay High Court that enabled a range of stakeholders - government and legal to get an insight into various accessible technology options available today and how the same can be implemented in various government programs. The XRCVC was subsequently also invited to become a member of the committee to make suggestions on the same to the Government of Maharashtra.

### **The Access Technology Hub: Technology Training and Research Programs**

Carrying forward the tradition the XRCVC this year ventured into R & D of a host of accessible technology products and launched the first accessible Physiotherapy equipment for the visually impaired. The XRCVC expertise was also recognized through

appointment on the Government of Maharashtra committee on accessible technology. The account of achievements of the year are listed below.

#### *Access Technology R & D*

Through this year the XRCVC's R & D team was involved in testing the following products:

- **Buddy (A DAISY Player):** Testing of the newer version of the player for user issues for the same to be reported to the developers.
- **Minitab and SPSS (Statistical software programs):** As various visually impaired students pursue MBA and Statistics courses they need to use mainstream statistical programs for their studies and work. The XRCVC tested the said programs on their accessibility with JAWS (The screen reader) and gave feedback to users for more efficient use.
- **I-ball ClickScan portable instant scanner:** I-ball in December 2010 launched ClickScan portable scanner product which would prove to be extremely useful for VI users. It was tested for its compatibility with screen readers and other accessible OCR systems. Based on the findings XRCVC has taken up work with the I-Ball Mumbai team to add more features and iron out a few accessibility features in the product.
- **SAP:** A business management software widely used by companies to facilitate their business processes has had many accessibility issues. This limits a visually impaired persons working in a corporate where they are required to use SAP systems. In order to address this issue the XRCVC has started working with the SAP team to make their products accessible to the visually impaired.
- In addition to the above testing included a range of other products and software as : Angel Multi function device, Lamp post scanner, Dolphin publisher 3. 1 and HAL, Obi 1. 2 and screen reader dolphin HAL and JAWS, Vidya Valan Unicode converter.
- Through these efforts the XRCVC has ensured that users have constant technology support for meeting their day to day and specialized requirements and have the same met at affordable costs.

#### **First time launch of Accessible Physiotherapy Equipment in India**

The XRCVC through the year actively worked with Unique Medical Appliances and Tapsi Electro Medical Systems to make the Interferential Therapy (IFT) and the Short Wave Diathermy (SWD) machines accessible. Both the companies manufacture the mainstream product for the same and they worked with the XRCVC to install accessibility features of voice outputs in both their mainstream products. ***The R & D led to for the first time in India fully accessible IFT and SWD machines being launched in March 2011.*** This has been a huge breakthrough for the XRCVC and the community of visually impaired physiotherapists. ***The said models are available in the market off the shelf at the same price rate making inclusion truly see the light of day for this group of visually impaired professionals.***

#### **Nodal Accessibility centre: Support and Training**

*This year in addition to running direct training programs for the visually impaired in access technology the XRCVC launched its train the trainer modules. These designed at three levels*



- beginner, intermediate and advanced aim at equipping other professionals in the field to train the visually impaired. This year the XRCVC conducted two train the trainer courses. One Intermediate level course for the batch of B. Ed in special education course students at S. N. D. T University, Juhu and another Entry level course for D. Ed in Special Education course conducted at NAB, India were held this year. In total these two courses covered 29 trainees. In addition Mr. Prashant Naik also conducted a training session on 'Technologies for the low vision' as part of the Rehabilitation Council of India (RCI) Continuing Rehabilitation Education course where a total of 30 special educators and teachers from all over Maharashtra participated. ***Hence the XRCVC has reached out to 59 trainers through the year.***

***Through various training sessions conducted the XRCVC reached out to 110 visually impaired persons.***

***Further the XRCVC this year was invited to make a presentation by the Honorable Chief Justice, Bombay High Court on accessible technology to the government and a range of other stakeholders involved in cases related to the visually impaired. Subsequent to the presentation Mr. Prashant Naik and Dr Sam Taraporevala of the XRCVC have been appointed in the core group of the Committee to assist all the Maharashtra Government departments through Social Justice department for procuring gadgets / devices / softwares for the visually challenged.***

### **Breaking Myths: Our continued Awareness Initiatives**

The annual awareness event of the XRCVC Antarchakshu - The Eye Within held in September 2011 this year worked on the theme of transport and education. Antarchakshu participants experienced a range of daily living tasks blindfolded including getting onto a bus. 1300 participants were sensitized through this experience. The event was also a starting point for beginning work of transport access in the advocacy programs of the XRCVC. The management members of both the bus and train transport system attended the event which began the process of getting key decision makers sensitized to the needs of the visually impaired. In addition to the mass scale awareness event the XRCVC through the year also reached out to a range of stakeholders - students, schools and corporates to spread the message of inclusiveness. Through this year the XRCVC sensitized 180 visually impaired persons on various assistive technology and changing careers and living scenarios for the visually impaired in India. Awareness of this kind amongst the visually impaired community is as crucial as the awareness within society. It is only when the two are done will we have a changed scenario in practice.

The XRCVC reached out to employees of Johnson and Johnson and Mphasis Ltd. (40 persons) to spread ideas of inclusive employment. 483 school students through a mix of mass scale programs and workshops were reached out to teach concepts of inclusion early in life. Further 180 college and professional course students were reached out to help them locate and internalize the concept of inclusion within their respective stream of studies. These included media, architecture, social work, counseling and liberal arts.

***Hence through the year the XRCVC through its range of awareness events and workshops has reached out to 2179 persons, bringing each participant closer to being open to having a visually impaired person participate alongside them in the mainstream.***

**The XRCVC Service Delivery Model: Our direct work with the visually**

***Continuing from our work over the years this year too the XRCVC continued to offer a range of services to its robust membership base of 165 members in the city and referral support to several members across the country.***

Our direct services to our members for the year included: Volunteer support, Counseling support, access format creation, computer training, English language training and legal aid.

***The XRCVC this year had an active volunteer base of 117 volunteers supporting our members across the city.***

In addition the XRCVC continued to run the XRCVC-Tech MahindraScholarship to support visually impaired students with a financial need for higher education. This year the scholarship attracted 68 applications. The XRCVC through its selection process awarded the scholarship to 10 students pursuing a range of courses - MBA, Masters in Social Work, Bachelors in Physiotherapy, B. Ed and Masters programs in various subjects. The XRCVC also continued the tradition of awarding the most meritorious visually impaired student studying at St. Xavier's College, Mumbai through the Lions Club of East Bombay Scholarship. The said scholarship was awarded to Mr. Ajay Kumar this year for his outstanding achievement throughout his academic career.

The XRCVC this year in order to support initiatives across the country has become the nodal centre of the western region for disbursement of various schemes on electronic products run by Saksham Trust, New Delhi. These schemes aimed at making available cell phones and laptops to the visually impaired at a better rate than the market price. The XRCVC facilitated the process of distribution in the western region making sure the visually impaired get the best available products at their door step.

### **Expanding Linkages: Networks and Presentations**

In its continued efforts to garner the value of partnerships the XRCVC has been involved with various seminars and workshops at the national level as well as has been part of various committees across forums. The following is an account of the same for the year 2010-2011

- Dr. Sam Taraporevala presented a paper on "Print Access: The Indian Story" at "Edict 2010 Conference" (Enabling Access to Education through ICT), New Delhi in October 2010. Mr. Prashant Naik did a demonstration and presentation on the ANGEL player at the DFI Conference, New Delhi in October 2010.
- Ms. Neha Trivedi shared the work of the XRCVC and its achievements at the Sightsavers South Area Partners meet in Vizag in November 2010.
- In January 2011 Mr. Prashant Naik made a presentation on divers assistive technologies on the invitation of the Honorable Chief Justice of Bombay High Court to the government and a range of stake holders at the court hearing on a collective set of cases related to rights of persons with disabilities.
- Dr Sam Taraporevala presented a paper at the Senior Scholars Seminar series held at K. J. Somaiya College on Smart Technology for Reaching the Unreached in February 2011.
- In March 2011 Dr Sam Taraporevala at CUSAT, Cochin's first annual national workshop for law students on "Re-thinking Intellectual Property Rights Studies" presented a paper on "Reading and Watching in the world of the disabled: *A New Perspective to Concerns and Solutions*"

- Dr Sam Taraporevala in April was invited at the Inaugural Special Needs in Education International Conference - Inclusive Learning Environments held at Dubai, UAE organized by Higher Colleges of Technology, UAE to be a panel member for the discussion Assistive Technology and its Human Interface where Dr Sam Taraporevala presented on the facet of Making Education Inclusive. At the same conference he also conducted a workshop on Assistive Technology: A step to Inclusive Education.
- In addition to the above the XRCVC representatives also attended meetings on committees they have been part of. This includes the General Council of National Institute of the Visually Handicapped (NIVH), Dehradun, Braille Council of India, the advisory committee on assistive technology to Government of Maharashtra, Ministry of Social Justice and Empowerment, the Daisy Forum of India (DFI).

## **18. Number of teachers and officers newly recruited: 22**

## **19. Teaching and non-teaching staff ratio:**

Arts, Science, Commerce	Teaching Staff	– 92
	Non-Teaching Staff	– 86
BMM/BMS/BSc IT/MSc Biotech (Self-financing Courses)	Teaching Staff	– 08
	Non-Teaching Staff	– <u>08</u>
	<b>Total</b>	<b>- 194</b>

## **20. Improvements in Library services:**

- After the Honours Room, Bar-coding of Books in the Lending Library was started this year. Bar code labels have been pasted on books in Lending Library Ground Floor.
- Library was kept open for extended hours from 9. 00 a.m. - 9 p.m. with the cooperation of the Commerce Library attendants from Jan. 2010 till April 2011. The Lending Library housekeeping hours have been reduced from 3 hrs to 1 hr.
- The Library Software SLIM 21 was upgraded and a Copycataloguing module was added in April 2011.
- SLIM Circulation module for issue-return of books was started for all FY students with their Unique Identity Card numbers from the beginning of the academic year. It will be extended to SY next year.
- The total no. of records in the SLIM database exceeds 81, 000 including 5368 bound volumes of journals. Accessioning of bound volumes of Journals continues. 705 vols. were accessioned this year.
- Seven students completed the Honour's Programme successfully in Information Literacy, this years' project was Reference sources, print and online. The Librarian Ms. Medha Taskar co-ordinated and conducted the course.

## **21. Number of new books and journals subscribed and their value:**

Number of Books purchased	:	1026
Number of Journals subscribed	:	86
Number of Gift Journals	:	20
Number of Magazines Subscribed	:	7

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

175 Courses were assessed and action taken.

## **23. Unit cost of Education:**

Arts & Commerce	:	Rs.32, 000/-
Science	:	Rs. 41, 000/-

## **24. Computerization of administration and the process of admissions and examination results, issue of certificates:**

Office administration, Admission, Monthly Attendance, Results, Examination and Mark sheet: All these facilities are computerized. Some of these are available on the college website [www.xaviers.edu](http://www.xaviers.edu).

## **25. Increase in the infrastructure facility:**

- Staircases
- Canteen Washing Room
- New Classroom for BMM
- New Office for B.Sc IT
- Animal Tissue Culture Lab - CIF

## **26. Technology up gradation:**

- Several classrooms were fitted with LCDs and made IT enabled

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

- Increased use of the computer labs for IT lectures, Bioinformatics and Computer studies
- Use of Moodle testing

## **28. Financial aid to students:**

- Student beneficiary fund disburses 2.5 lakhs per year to deserving students.
- Govt. merit scholarships and free-ships are facilitated through College.

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

The Association organises At-Home programmes for the newly graduated students of the College, helps with Placements of students, provides guest speakers and resource persons etc.

Eminent Alumni are members of the Advisory Council of the college. A few alumni made financial contributions to the college

### 30. Activities and support from the Parent-Teacher Association:

The College does not have a Parent-Teacher Association. However it organises annual Parent-Teacher Interaction sessions, to give feedback about student attendance and performance, to involve parents in the education of their children and to seek financial collaboration. Parents are also invited for the Orientation Programme at the beginning of the academic year

### 31. Health Services:

- Three Staff members of the college have been trained in First aid
- First aid kits are available in each department
- A general practitioner, close to the college attends to any emergencies that may occur.
- The college has an understanding with St. Elizabeth Hospital for diagnosis and treatment of College employees and for emergency treatment of students. The neighbouring G.T. Hospital is also used for emergencies.
- Potability of Water in terms of absence of coliforms is monitored on a monthly basis.

### 32. Performance in sports activities:

ACADEMIC YEAR 2010-2011		
BASKETBALL	MEN	Quarter-Finalists
	WOMEN	1 <sup>st</sup> Runner-Up
FOOTBALL	MEN	Quarter-Finalists
	WOMEN	1 <sup>st</sup> Runner-Up
VOLLEYBALL	MEN	Quarter-Finalists
	WOMEN	Quarter-Finalists
HANDBALL	MEN	Participated
	WOMEN	2 <sup>nd</sup> Runners-Up
HOCKEY	MEN	2 <sup>nd</sup> Runners-Up
	WOMEN	2 <sup>nd</sup> Runners-Up
CRICKET	MEN	Participated
TABLE TENNIS	MEN	Participated
	WOMEN	1 <sup>st</sup> Runner-Up
BADMINTON	MEN	Pre Quarter-Finalists
	WOMEN	Pre Quarter-Finalists
CHESS	TEAM	Quarter-Finalists
CARROM	TEAM	Participated

<b>PERFORMANCE IN INDIVIDUAL CHAMPIONSHIPS ACADEMIC YEAR 2010-2011</b>	
<b>MUMBAI UNIVERSITY INTER COLLEGIATE REPRESENTATION</b>	
CHESS	Apeksha Porwal ( <b>Ranked 2<sup>nd</sup></b> )
CARROM	Chanda Khandelwal ( <b>Ranked 2<sup>nd</sup></b> )
ATHLETICS	Reetham Salian: 400 meters <b>SILVER</b>
BADMINTON	Rakhee Rajsimha ( <b>Quarter finalist</b> )
<b>INTER UNIVERSITY REPRESENTATION</b>	
FOOTBALL (WOMEN)	: Durva Vahia , Mistry Natasha, D'costa Karen, Gokhale Nupur, Sharma Sonakshi, Prince Stacey
FOOTBALL (MEN)	:Rodrigues Pablo, D'souza Austin
HOCKEY(WOMEN)	:Melaine Rebello, Niloyasia Lobo
ATHLETICS(MEN)	: Reetham Salian 400 m
<b>OPEN STATE REPRESENTATION</b>	
BASKETBALL (WOMEN)	:Sanchita Pawar, Tanvi Thakur
<b>INTERNATIONAL REPRESENTATION</b>	
LAWN TENNIS (WOMEN)	:Taruka Shrivastav represented India for the Asian Games
SAILING (WOMEN)	:Ayesha Lobo represented India at Bahrain and Thailand

### **33. Incentives to outstanding sports persons:**

- ◆ All Students that represent college and are winners, runner up or have played the semifinal or Quarter final rounds in Tournaments organized by the University of Mumbai get 10 grace marks added to their Final Mark Sheet
- ◆ The winners at various individual and team games get a Scholarship.
- ◆ All winners are felicitated at our College Day programme.
- ◆ The Annual Sports Report mentions the achievements and performance of all the winners that is published in the yearly magazine.

### 34. Student Achievements and Awards:

#### UNIVERSITY EXAMINATION

#### MERIT HOLDERS

#### TYBSC EXAMINATION

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	2975	Mr. Kumar Ransom Lancy Lissy	738/800	92.25	Eight
2	287	Ms. Saseedharan Shanthi Sailaja	733/800	91.63	Tenth

#### SUBJECT WISE TOPPERS

#### LIFE SCIENCE

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	3727	Ms. Dsouza Wendy Andrea	474/600	79.00	First
2	329	Ms. Shashikant Tanvi	464/600	77.33	Third

#### MATHEMATICS

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	2975	Mr. Kumar Ransom Lancy Lissy	547/800	91.16	Second

#### GEOLOGY

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	6336	Ms. Das Debarati Subrata	510/600	85.00	First
2	563	Mr. Sorab Vivan Jagannath	489/600	79.83	Second
3	4053	Mr. Kalra Nishant Satish	419/600	69.83	Third



## CHEMISTRY

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	168	Ms. D'Mello Viola Caroline	493/600	82.16	Third

## UNIVERSITY EXAMINATION

### MERIT HOLDER

## TYBA EXAMINATION

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	6771	Ms. Kapoor Hansika Jagdeep	517/600	86.17	First
2	4740	Ms. Khambaty Maherra Qureish	503/600	83.83	Fifth
3	1159	Ms. Menezes Gama Gayle	496/600	83.67	Eighth

## SUBJECT WISE TOPPERS

### ECONOMICS

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	560	Mr. Mehta Romit Arun	474#10/600	79.00	First
2	3506	Ms. Nanavati Arpita Uday	472/600	78.67	Second

## ANCIENT INDIAN CULTURE

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	6846	Ms. Kholgade Shalmali Jayant	410/600	68.33	Third

## POLITICAL SCIENCE

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	1028	Ms. Kuwalekar Prajakta Shrikant	429/600	71.50	First
2	1024	Ms. Kaimal Anu Madhusudhana	428/600	71.33	Second

### ENGLISH

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	1246	Mr. Tagat Anurag Venkatesh	429/600	71.50	Second
2	48	Mr. Bhattacharya Paroma Gautam	427/600	71.17	Third

### SUBJECT WISE TOPPERS HISTORY

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	6135	Ms. Gupte Tanvi Praful	436/600	72.67	Second
2	771	Ms. Noronha Tanya Marie	431/600	71.83	Third

### SOCIOLOGY

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	838	Ms. Kumari Nandika Mtiryunjay	465/600	77/50	First
2	871	Ms. Sureliya Bhaveshi Rajendra	458/600	76.33	Second

### PSYCHOLOGY

SR. NO	SEAT NO.	NAME OF STUDENTS	TOTAL MARKS	%	ORDER OF MERIT
1	6771	Ms. Kapoor Hansika Jagdeep	517/600	86.17	First

### UNIVERSITY RESULTS FOR THE YEAR 2010 - 11

Class	No. of Students appeared	No. of students passed			
		I Class	II Class & Pass Class	Total	Pass %
T.Y.B.A.	358	277	75	352	98.32%
T.Y.B.Sc.	234	155	62	217	92.73%
T.Y.B.Com.	177	49	102	151	85.31%
T.Y.B.M.S.	62	59	2	61	98.39%
T.Y.B.M.M	60	58	2	60	100%
T.Y.B.Sc – IT	59	31	14	45	76.27%

### UNIVERSITY SCHOLARSHIPS

Sr. No.	Name of the Scholarship	Name of the awardee
1	"The Lions Club of Bombay Scholarship" for securing the highest number of marks in the subject of 'Sociology' from amongst the successful candidates at the B.A degree examination held in April 2011, on condition to prosecute studies for M.A degree examination in Sociology	Kumari Nandika
2	"The Ranchhoddas Lotvala Foundation Sociology Prize" for securing the highest number of marks in 'Sociology' as the major subject from amongst the successful candidates at the B.A degree examination held in April 2011	Kumari Nandika
3	"The Sadashiv Kanoji Patil Prize" for securing the highest number of marks in 'Political Science' as major subject from amongst the successful candidates at the B.A degree examination held in April 2011	Kaimal Anu Madhusudhana
4	"The Lotus Foundation Prize (in Economics)" for securing the highest number of marks in 'Economics' as a major subject at the B.A degree examination held in April 2011	Mehta Romit Arun
5	"The Venishankar Madhavji Bhatt Scholarship" for securing highest number of marks in 'Economics' as a major subject at B.A degree examination held in April 2011, on condition to prosecutes studies with Economics as subject for M.A degree examination.	Mehta Romit Arun
6	"The Late Shri Arvind Vishnu Chitnis Memorial Prize" for securing highest number of marks in 'Economics' as a major subject at the B.A degree examination held in April 2011	Mehta Romit Arun
7	"The Snehalata Pendse Prize" for securing highest number of marks in 'Economics' as a major subject at the B.A degree examination held in April 2011	Mehta Romit Arun
8	"The Harishchandra Baboorao Joshi Memorial Scholarship" for securing the highest number of marks in 'Economics' as the major subject at the B.A degree examination held in April 2011, on condition to prosecute studies further at least for one year.	Mehta Romit Arun
9	"The Dr. Lakshminarayan K. Mundra Bharatiya Memorial Prize" for securing highest number of marks in 'Economics' as a major subject (6 papers) from amongst the successful candidates at the B.A degree examination held in April 2011	Mehta Romit Arun

10	"The Smt. Gulestan Rustom Billimoria Prize" for securing the highest number of marks in the subject of Sociology (6 papers) from amongst the successful female candidates at the B.A degree examination held in April 2011	Kumari Nandika
11	"The Kaikobad Behramji Marzban Prize" for securing highest number of marks on the aggregate from amongst the successful candidates at the B.A degree examination held in April 2011	Kapoor Hansika Jagdeep
12	"The Bai Jaiji Pallonji Laloaca Scholarship" for securing the highest number of marks on grand total amongst the successful female candidates at the B.A degree examination held in April 2011, on condition to prosecute studies further with the University	Kapoor Hansika Jagdeep
13	"The Sant Kumar Bajoria Scholarships" for securing the highest number of marks on the aggregate from amongst the successful candidates at the B.A degree examination held in April 2011, on condition to prosecute studies for M.A degree examination.	Kapoor Hansika Jagdeep
14	"The Sir Lawrence Jenkins Scholarship" for securing the highest number of marks on grand total from amongst the successful candidates at the B.A degree examination held in April 2011, on condition to prosecute studies for LLM degree examinations	Kapoor Hansika Jagdeep
15	"The Wasant Dattatraya Wagh Prize" for securing the highest number of marks on the aggregate from amongst the successful candidates at the B.A degree examination held in April 2011	Kapoor Hansika Jagdeep
16	"The Salehbai Kaderbhai Khalil Endowment Prize" for securing the highest number of marks in the subject of Geology from amongst the successful candidates at the B.Sc Degree examination held in March 2011	Das Debarati Subrata
17	"The Rustomjee Hormusjee Mody Prize" for securing the highest number of marks on the aggregate from amongst the successful candidates at the B.A degree examination held in March 2011	Kapoor Hansika Jagdeep
18	"The Gangadas Rangildas Scholarship" for securing the highest number of marks on the aggregate from among the successful Hindu candidates at the B.A degree examination held in March 2011	Kapoor Hansika Jagdeep
19	"The Lotus Foundation Scholarship" for securing highest number of marks on the grand total from amongst the successful candidates at the B.A degree examination held in March 2011, on condition to prosecute studies for M.A/B.Ed./B.Lib.Inf.Sc.degree examination.	Kapoor Hansika Jagdeep

20	"The Kumari Kusum Sohani Prize" for securing the highest number of marks on the grand total amongst the successful female candidates at the B.A degree examination held in March 2011.	Kapoor Hansika Jagdeep
21	"The Bai Navajbai Dorabji Contractor Scholarship" for securing the highest number of marks on the grand total amongst the successful female candidates at the B.A degree examination held in March 2011, on condition to prosecute studies for the M.A or Ph.D degree	Kapoor Hansika Jagdeep
22	"The Shri Vinayak Shankar Vernekar Gold Medal Jointly with the University of Mumbai for securing the highest number of marks in the subject of Psychology from amongst the successful candidates at the B.A degree examination held in April 2011	Kapoor Hansika Jagdeep
23	"The Dr. Dhala's Felicitation Fund Eureka Forbes Limited Scholarship" for securing the highest number of marks in the subject of 'Microbiology' from amongst the successful candidates at the M.Sc degree examination held in April 2011	Bhattacharya Mohini
24	"The Kashinath Trimbak Telang Prize" for securing the highest number of marks in the subject of 'Ancient Indian Culture' from amongst the successful candidates at the M.A degree examination held in April 2011	Divekar Harshada Shivprasad

### **Other Student Achievements**

Conrad Noronha	Championship Trophy at Group level in the IXth National Youth Parliament competition organized by the Ministry of Parliamentary Affairs, Govt. of India
Basil D'Mello	M.Sc.(Part II) selected to work on project entitled 'Characterization of cellulose produced by micro organisms growing on specific cellulose substrates' from August 2010 to January 2011 under the project scheme with DBT-ICT Centre for Energy Biosciences
Siddharth Venkatesh	Participated in the Parshvanath International Chess Tournament in Delhi from Jan. 8th to 18th, 2011
Romit Mehta	First place in Chancellor P.C. Alexander State Level Extempore Competition in English Language held in University of Mumbai on Nov. 25, 2010
Sagar Pandit	Winner for Young Ambassador Contest 2010 of Indo-American Society (IAS) in Ex-Tempore speech on Jan. 7, 2011
Ankiti Bose	Winner for Young Ambassador Contest 2010 of Indo-American Society (IAS) in Ex-Tempore speech on Jan. 7, 2011
Arshiya Khanna, Abhay Mittal, Jinal Sanghavi, Aaashna Jamal, Raashid Nayeem, Snigdha Kumar (Team leader)	Participated in St. Joseph's Eco Festival
Nikita Saxena Tanya Singh Reuben Dantes	Best Event Hosted (International) Award, 'Teach for India' Recruitment Campaign

### **Intercollegiate Cultural Activities**

The Xavier's team won the following trophies at the various Intercollegiate festivals.

Malhar 2010	Overall Winner, Conclave and Fine Arts Trophy
Mood Indigo IIT 2010	Second Overall Winner
Kaleidoscope 2010	Second Place – Overall , Literary Arts and Fine Arts Trophies
Kshitij 2010	Second Place Overall

### **35. Activities of the guidance and counseling unit:**

The Counselling Centre continued the services it provides in assisting students in the needs they might have, particularly in the areas of vocational guidance, as well as in matters of personal counselling. For vocational guidance a battery of psychometric tests was conducted and the results were discussed to help students make choices for courses or careers.

Over two thousand students availed of the services this year. These were students of St. Xavier's College as well as students of other colleges. Non-students also came in occasionally for vocational guidance and personal assistance.

Talks, panel discussions on examination stress, workshops and orientations were also undertaken by the counselling centre. These were either in the college itself or in other institutions in response to requests for the same

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

The placement season this year was one of the most remarkable ones with increasing number of companies stepping into the college and more students climbing up the corporate ladder. The college saw a mélange of banks, consultancies, market research, information technology, conglomerates and other financial services firms. It started off in early October with Bain & Company (BCC) inaugurating the season. The BCC (Bain Capability Centre) is an offshore group that supports Bain's worldwide offices in various types of projects and provides shared services for the global system. Other companies that hired this year include Google, The Essar Group, McKinsey (MKC), Tresvista, Direct-I, KPMG, Citibank, A C Nielsen, Mahindra and Mahindra, JP Morgan, Teach for India, Accenture, Wipro, Infosys, TCS and Convonix. Around 20-30 companies recruited this season and the salary package ranged from 3 lakhs to 10 lakhs.

The selection procedure was uniform for most of the companies. The first step was resume screening to be followed by group discussion and personal interview/s. Some companies even had a written round to test the aptitude and general awareness of the candidates. The key skills required by most of them were good written and oral communication, numerical ability, aptitude and intellectual capability. Some companies had a bar on the streams/courses eligible for their selection process with most of the companies hiring from Economics, Statistics and Management. Some media companies picked up mass media graduates as well.

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

A two day workshop was organized for non teaching staff on Personal development issues.

### **38. Any other relevant information the institution wishes to add:**

#### **A. PRINCIPLES USED IN CONSTRUCTING AUTONOMY**

- Autonomy should achieve higher standards and greater creativity.
- The Official Teaching Workloads of the Faculty should remain the same as per UGC and Government guidelines.
- Student Lecture Hours Should Remain the Same.
- The College will stay in tune with the University of Mumbai.
- Syllabii will be made more Relevant, Challenging and Balanced.



- Continuous Internal Assessment will avoid rote learning and encourage creativity and continuous learning.
- Arts, Science and Commerce UG courses will have the same number of total mandatory credits.
- “Credit” is the internationally accepted norm to measure the work done by the teacher and the student in the teaching-learning process.
- 1 Credit corresponds to varying hours of contact and guided personal work per week, over 15 weeks, depending on the Subject (whether Major/Non-Major), Faculty of Study, Year of Study and whether Practical or Lecture.
- Students will get Credits for Co-curricular and Extra-curricular activities.
- Students will get Credits for Service Learning and Extension Work.
- Quality Mechanisms will be put into place to ensure excellence in the teaching-learning process.

## **B. THE CREDIT SYSTEM CONSTRUCTED AND ADOPTED UNDER AUTONOMY**

### **• ACADEMIC CREDITS**

<b>ACADEMIC CREDITS FOR THE B.A. PROGRAMME</b>			
Year of Study	First Semester	Second Semester	Total
First Year (FY)	21	21	42
Second Year (SY)	24	24	48
Third Year (TY)	28	28	56
<b>TOTAL MANDATORY CREDITS</b>			<b>146</b>

<b>ACADEMIC CREDITS FOR THE B.Sc. PROGRAMME</b>			
Year of Study	First Semester	Second Semester	Total
First Year (FY)	21	21	42
Second Year (SY)	22	22	44
Third Year (TY)	30	30	60
<b>TOTAL MANDATORY CREDITS</b>			<b>146</b>

<b>ACADEMIC CREDITS FOR THE B.Com. PROGRAMME</b>			
Year of Study	First Semester	Second Semester	Total
First Year (FY)	21	21	42
Second Year (SY)	22	22	44
Third Year (TY)	30	30	60
<b>TOTAL MANDATORY CREDITS</b>			<b>146</b>

- **ADDITIONAL REQUIREMENTS FOR ALL DEGREE COURSES**

**Special Courses for the first four semesters:**

- Interdisciplinary Environmental Studies
- Giving Voice to Values
- Human Rights
- Cross Faculty Course

- **ADDITIONAL ACADEMIC CREDITS TO BE COMPLETED OVER THE SIX SEMESTERS:**

- Social Involvement Programme : 2 Credits
- Extracurricular Activities : 2 Credits

These additional credits are Mandatory Credits. However, these Grades will not be counted in the final GPA.

**Students should earn a total of  $146 + 4 = 150$  Credits for the degree program.**

- Field Work/ Project : 1 Credit - optional extra credit encouraged  
(Work related to the major subject completed in the summer between the S.Y. and T.Y.)

## **C. ASSESSMENT / EVALUATION SYSTEMS ADOPTED**

### **Theory Courses**

- Comprehensive Evaluation of students is achieved through both Continuous Internal Assessment (CIA) and End Semester Assessment (ESA).
- The distribution of weightage between the Continuous Internal Assessment and End Semester Examinations is 40: 60

### **Continuous Internal Assessment (CIA)**

- Mid Semester Written Test ( 45 min) = 50% of CIA marks
- Assignment/MCQ/Quiz/Seminar/Presentation/Fieldtrip/Viva/Exhibition Model etc = 50 % of CIA marks
- A Re-test of 20 marks and 45 minutes will be held for those who miss either or both CIA units or who fail in both the CIA units taken together.
- A Grade for Attendance will be awarded.

### **End Semester Assessment / Examination**

- In the form of a two-hour, comprehensive written / Computer-based examination for each Course held at the end of each semester.

### **Practical Courses**

- Continuous Internal Assessment: End Semester Exam with a ratio of 40:60
- CIA: 40 % per Semester: Journal 10 % + Mid Semester Tests = 30 %
- A Semester End Practical Exam of 60 % or an Annual Practical Exam: with double the marks
- No marks for Attendance but the Journal to be certified with 75% Attendance per Paper / Category of Experiments, as specified by the Department

## **D) DOCUMENTATION OF QUALITY MECHANISMS**

### **Quality Mechanisms:**

1. Study Packs: essential readings, drawn from different sources, to cover the syllabus
2. Blooms Taxonomy: Learning Objectives for the Teaching – Learning Process and for Paper Setting.
3. Presentation/Assignment Evaluation Grid: making clear the criteria for assessment.
4. Bar Coding / Masking of Answer Papers before Assessment begins.
5. Moderation of Assessment through External Examiners or Double Blind Evaluation.
6. Feedback to students on their Performance – display of papers (in groups of 10).
7. Photocopy of the Answer Paper and/or Challenge evaluation of the Paper.
8. The attempt at creating knowledge through participative lectures, using the constructionist philosophy of education and not the banking philosophy.
9. The increasing Use of ICT in the teaching-learning process, including Smart Boards, Video-Conferencing, LCD presentations, Internet Connectivity etc in designated Multi-Media rooms and the use of LCD presentations in all classrooms.
10. The development of language and soft-skills through the Language Lab, special communication skills courses and through participation in extra-curricular activities.
11. Regular encouragement for and monitoring of academic performance and class participation.
12. The Honours Programme for the academically better students, consisting of 8 extra credits, earned over the 3 years, including an introduction to research.
13. A 3-credit Cross Faculty course for all students, to encourage inter-disciplinary learning.
14. Fieldtrips and Guest Lectures to make academics more experiential.
15. Summer Internships for experience of industry and the corporate world.
16. Yearly Department Khandala Seminars for student presentations.

17. The publication of yearly Department Journals for student articles on a theme.
18. A mandatory Social Involvement Programme to conscientise students to social reality and to provoke the desire of wanting to give back to society.
19. A well-established Counselling Centre for Aptitude Testing and Career guidance for students and Personal Counselling of students and parents.
20. A Placement Cell to give training in the soft skills needed for Applications and Interviews and to facilitate interaction with the Corporate world.
21. Special efforts at Inclusive Education through the XRCVC, disabled-enabled campus, sensitisation of faculty to the needs of slow learners, the Pathways Programme with Ford Foundation, Scholarships for the Disadvantaged through the Student Beneficiary Fund, etc.
22. The Department of Inter-religious Studies to encourage dialogue with and sensitivity to other religious traditions in the world.
23. Mentoring of students by Faculty, in groups assigned to each of the latter.
24. Regular Faculty Seminars and Workshops to upgrade skills and to evolve better methods and processes of teaching-learning.
25. The encouragement of Research among Faculty and Senior students, including applying for University, State & Central Government and UGC funding for research projects, the presentation of papers at Conferences and serving as Resource Persons in other institutions.
26. The publication of a yearly Peer-Reviewed Research Journal by the Faculty.
27. International programmes of exposure for Faculty and Students and the admission of foreign students to courses on Campus to increase cultural diversity.
28. Regular student feedback to Faculty on the teaching-learning process through TAQs. New Faculty have an Orientation, a Faculty Mentor and sit-ins by the Head of Department, as helps to settle in.
29. A yearly evaluation of the Academic process by Students and Faculty.
30. Syllabii review by the department Faculty and by External Experts from industry and academia, on a yearly basis.
31. Involvement of Eminent Alumni in visioning for and in assisting the college in its activities.

## **E. CULTURAL ACTIVITIES**

Cultural Activities continued through the structures already developed, like the Malhar Intercollegiate competition, the Indian Music Group for classical Indian music, the Ithaka festival for English poetry and drama, the Anthas festival of Hindi music and theatre, and Aamod, the Marathi cultural festival. Students won prizes at Intercollegiate cultural festivals - Item 34.

## **F. INTERNATIONAL PROGRAMMES**

### **Short Term Exchanges:**

#### **Prime Minister (UK) Global Fellowship Program (along with British Council, Mumbai):**

This was the third year for hosting five British students for 15 days under the Prime Minister's Global fellowship Programme. These students were hosted by five of our Junior college students at their residences from 3rd August 2010 to 13th August 2010. The guest students also attended the regular Junior college lectures in various subjects

along with the host students who were also assisted by a team of another 10 enthusiastic students. The Programme was supervised by Prof. Amrita Nadkarni with assistance from other faculty members.

**British Council's Debating Matters** – Junior College students of Xavier's participated in this National Debating Matters – sponsored by BCL. Though Xavier's did not qualify, it was a thrilling and enriching experience for our students. The regional round was held at XIMR on 27/09/2010.

**EuMind Exchange Programme** – Under 'Europe Meets India' programme 14 students and 2 teachers from St. Limbertus, Westerlo, Belgium visited St. Xavier's. Our junior college students and teachers hosted them from 17/11/2010 to 27/11/2010. They attended various lectures, went on Field visits to Elephanta, REAP and various locations in Mumbai. Dr. Fleur D'Souza, Dr. Radha Kumar, Prof. Anjali Lokur, Prof. Vaishali Mohoni were resource persons.

Their visit was reciprocated by us in May 2011. Eighteen students and two faculty members of our Junior College visited Westerlo, Belgium from 2nd May 2011 to 13th May 2011.

**Deakin University, Melbourne, Australia** - A group of 46 students and six faculty members of Deakin University visited St. Xavier's from 20/11/2010 to 30/11/2011.

Unlike previous years, this time we provided them a Rural Camp – at AMBATA, near Nasik from 24/11/2011 to 28/11/2011. At Xavier's, Lectures to these Deakin' students were delivered by Dr. Agnelo Menezes on Micro Markets. He also took them for a field Trip to Crawford Market. Fr. Joseph M.T. (Sociology) spoke to them on Freedom of Expression and Empowerment. The lectures, field trip and Rural camp were very well appreciated by the Deakin Students and faculty. The best part of this programme was a Debate – on “*Women work harder than Men (Xavier's - Proposition)*”. Xavier's won the First place and trophy. – Junior college students – Noel Mathew, Hailley Turakhia, Sumitra Badrinathan represented St. Xavier's.

**Harvard Colleges in Asia Programme (HCAP 2010-11):** – 7 students of St. Xavier's visited Harvard, 27th Jan 2011 to 7th of Feb 2011. They attended a conference at Harvard – Boston on 4-5 Jan 2011 – on ‘**Global Healthcare Systems: A Changing Landscape**’ along with students from eight other Asian universities. Ten Harvard students reciprocated this visit from 13/03/2011 to 20/03/2011. We organized an international Conference on 18th and 19th March 2011. The theme for the conference was same as the Harvard conference but with Indian perspectives on Global Health. Harvard students were exposed to the Mumbai life and Culture and were taken for rural visit.

**Yale University, USA** – Yale conducted their “Summer Session Abroad” Programme on Xavier's Campus from 30th May 2011 to 1st July 2011. Three of our students participated in this summer session. Yale also awarded two scholarships of 5000 USD to two students to attend the Yale Summer Session at Yale, USA. MS. Neha Kulkarni and Ms. Ashma Jamal were chosen by the selection panel for this scholarship.

**India Leadership Exchange Programme – Stern Business School, New York University.** The Americans cancelled their scheduled visit to Xavier's and HR in January 2011 due to travel alert put up on the US government's official website. It was certainly a big disappointment for our students who were waiting to meet and interact with their

counterparts. Although NYU did not show up, we kept our promise and sent seventeen students and two faculty members to NYU from 22nd May 2011 to 5th June 2011. Our students along with HR students participated in a two weeks specially designed course on “Economics of Bollywood/Tollywood/ Hollywood”. The programme was delivered by Prof. V. Srivastan of NYU. Prof. Vinita Bhatia and Prof. Fr. Pessô Conrad accompanied our students. Five commerce students and one arts student were fully sponsored by NYU. Four students were partly funded.

**University of California, Berkeley, USA Summer Session A:** As in last four years, twenty students enrolled this year for Summer Session A from 23rd May 2011 to 1st July 2011 at Berkeley. Summer Programmes at Berkeley give an opportunity to choose from 500 different courses offered by UCB. Most of our students register for International Business, International Finance and Accounts and Economics. Many students also go for Psychology related courses. This programme gives our students a chance to do a cross faculty course which is not possible in our education system. It also provides them opportunities to meet and interact with a variety of international students. Dr. Fr. Arun de Souza from Sociology accompanied the group to Berkeley and completed his library work on a research project using the vast resources at Berkeley.<sup>12</sup>

**The Steinhardt Institute for Higher Education Policy, New York University:**

Ann Marcus, Professor and Director and her group of 24 students visited the college on 15th Jan 2011 for a day. Fr. Frazer Mascarenhas, s.j., Principal, interacted with these students with other faculty members from Xavier’s.

**Sciences Po, Paris, France:**

Three students from Sciences Po spent a year at Xavier’s from June 2010 to March 2011. Ms. Mansi Seth, our student of SYBA spent a year at Sciences Po. She was offered a scholarship by the French Embassy, New Delhi. In addition, two TYBA students were nominated for one year academic programmes at Sciences Po, Paris.

The coming academic year, three students from Sciences Po will be on our campus for the entire year doing Humanities. Our students will be offered complete fee waiver for one year under this exchange programme.

**IESEG School of Business – Lille Catholic University – Lille, France:** This is the fourth year of this student exchange programme. This year three Students from IESEG attended a full year’s BMS programme at Xavier’s during the academic year 2010-11. Xavierites are encouraged to apply and benefit from this exchange programme. More information could be obtained from the International Programme Office or through email: [cip@xaviers.edu](mailto:cip@xaviers.edu).

**OMG Canada:**

Ontario - Maharashtra-Goa (OMG) government Exchange programme is a collaborative programme between the Canadian Government and the Government of Maharashtra and Goa. From Canadian side, 16 universities from Ontario State and 7 Universities from Maharashtra and Goa are participating in this exchange programme. It is important to understand that no degrees or diplomas are awarded under this programme by any of the 16 Canadian Universities.

During the academic year 2010-11, Ms. Rachana Nitin from the Zoology department and Michelle Fernandes spent one year in the Canadian Universities. Espoir Manirambona from Canada spent one full year at Xavier's doing Political Science. This year, Three Xavierites have been short listed by OMG for the year 2011-12 and we will be hosting one Canadian Student for the first semester and two others in the second semester.

### **Stuttgart University and English Department – St. Xavier's College – Online Diploma**

Under this collaborative programme with the English Department of St. Xavier's College, 10 students and two faculty members from University of Stuttgart, Germany visited Xavier's from 3rd Jan 2011 to 7th Jan 2011. Ten of Xavier's students and one faculty member from Xavier's participated in this Joint Diploma Programme. This programme is initiated by Dr. Shefali Balsari-Shah, HOD, English Department.

### **Comillas Pontifical University, Madrid, Spain:**

During the year 2010-11, One student from Spain spent the first term on our campus doing BMS. The second student Stefanie Collis not only participated in Malhar by being a part of the marketing team but she extended her stay for the second semester too. She also did a certificate course in Hindi. The coming academic year, we will have three students from Comillas Pontifical University, Madrid for BMS.

In exchange two students spent a year at Madrid and one Xavierite has been nominated to do one year with Comillas for the year 2011-12.

**Blue Bridge – USA** – Ten American students from various US universities attended the Second Semester at Xavier's.

### **FACULTY ENRICHMENT PROGRAMME:**

Under Collaborative Programme Delivery Scheme of UKIERI, British High Commission, New Delhi - eleven of our Science Faculty members visited the University of Bath, UK for ten days in May 2011. The programme was part-sponsored by UKIERI, New Delhi. The Xavier's faculty visited various research laboratories in the University of Bath, and interacted with different faculty to explore the possibility of future collaboration with Bath.

### **Lectures by International Speakers at Xavier's:**

On 16/07/2010 Prof. Andrew Light from USA – Senior Fellow at American Progress on Climate Change – gave an illustrated Talk in the MMR on Climate Change (American Center). Dr. Aggie and Fr. Tony participated in the Panel discussion.

On 14/01/2011 A Talk by Sir ROBERT SWAN, who is a Polar explorer, first person to walk on the North and South Poles and Noted Environmentalist was organized by Xavier's in collaboration with Sanctuary Asia. The talk was well appreciated by the students who attended this programme.

### **International Scholarships:**

Two students Mr. Sagar Pandit and Ms. Ankita Bose won the INDO-AMERICAN SOCIETY'S YOUNG AMBASSADOR CONTEST AND GOT SCHOLARSHIPs TO VISIT the US UNIVERSITIES FOR A MONTH.



In addition, throughout the year there have been several visitors to college. President Papp, Kennesaw University USA; Luncheon Education Roundtable meeting with Canadian Senators at SNDT University, Churchgate and visit of twenty Caribbean diplomats were some prominent ones to mention.

The last four years very a fruitful period for St. Xavier's and the International Programmes are shaping up in the right direction. For me personally, it has been an extremely enriching experience as it gave me the opportunity to work with different people from different countries. I will certainly miss my CIP office and CIP activities.

## **G) FACULTY ACHIEVEMENTS**

### **PARTICIPATION IN THE WORK OF THE UNIVERSITY OF MUMBAI**

There are several senior teachers of St. Xavier's College serving in the various committees of the University of Mumbai .

	ARTS & COMMERCE	SCIENCE
<i>No. of Departments</i>	<b>16</b>	<b>9</b>
<i>No. of Faculty</i>	<b>41</b>	<b>59</b>
<i>As Resource persons for Refresher Course and Orientation Programme</i>	<b>03</b>	<b>06</b>
<i>Syllabus Committee</i>	<b>12</b>	<b>09</b>
<i>Board of Studies</i>	<b>01</b>	<b>04</b>
<i>Examination:</i>		
<i>a) Undergraduate</i>	<b>12</b>	<b>42</b>
<i>b) Post graduate</i>	<b>05</b>	<b>18</b>
<i>Moderators</i>	<b>12</b>	<b>22</b>
<i>Post graduate teachers</i>	<b>14</b>	<b>18</b>
<i>Ph.D. guides</i>	<b>06</b>	<b>08</b>
<i>Ph.D. Examiners</i>	<b>05</b>	<b>06</b>

**ACADEMIC ACHIEVEMENTS OF STAFF :**  
**OTHER THAN MUMBAI UNIVERSITY**

**PRESENTATIONS**

**Ms. Anita Rane-Kothare**

“Makara Torana and Vastu shastra” at the International Seminar on Vastu Shastra and Allied Sciences organized by BHU and the Department of Veda SVDV at New Delhi.

“Valaval an important port in the early medieval period in Aparanta” at an international seminar organized by Indian Archaeological Society, Lucknow.

“Sindhudurga Jilhyatil Sapadlele Jain Mandirache avashesha ani Konkanatil Jain Dharma” at Konkan Itihas Parishad, Ratnagiri.

**Ms. Alpana Palkhiwale**

‘French syllabus under an Autonomous system.’ at a Conference in Goa in April 2011 organised by the IATF (Indian Association of Teachers of French) and the Embassy of France on ‘Curriculum in French’

**Dr. Ms. Fleur D’Souza**

“My search for the histories of forgotten peoples: hesitant explorations in Oral History” at the UNSW international research workshop at University of New South Wales at Sydney on Sept 6, 2010.

“The East Indians of Mumbai: identity, icons and issues” at an International Seminar on the theme, ‘Mumbai – socio-cultural perspectives: contribution of ethnic groups and communities’ at the Sophia College for Women, Mumbai. January 7& 8, 2011.

“Christian Educational Institutions: The Making of Modern Democratic India” at a National Seminar at the Indian Institute of Advanced Studies, Shimla

**Mr. Avkash Jadhav**

- “Mahatma's Perception of Buddha and his Advocacy of Buddhism in Action: An Analysis” at the National Seminar of ISBS (Indian Society of Buddhist Studies) from 17<sup>th</sup>-19<sup>th</sup> Sept, 2010, Ahmedabad.
- “The Philosophy of Vasudhaiva Kutumbakam and its Implication in the CSR” at Afro-Asian Conference on 20<sup>th</sup> – 23<sup>rd</sup> Oct, 2010.

“Reflections of Gandhian Philosophy on the Concept of Globalisation” at National Seminar at Maniben Nanavati College 15<sup>th</sup> - 16<sup>th</sup> Dec, 2010.

“Higher Education India: From Liberalisation to Privatisation” at International Conference organised by Delhi School of Professional Studies and Research (DSPSR) on 4<sup>th</sup> - 5<sup>th</sup> Jan, 2011, New Delhi.

**Dr. Ms. Nandita Mangalore**

‘Development of a Research Culture at the Undergraduate level: Challenges & Strategies’ at the APQN International conference held from the 2<sup>nd</sup> to the 4<sup>th</sup> of March, 2011.

**Dr. Ms Vivien Amonkar**

“Continuous Assessment – A Quality Strategy? “at the conference on Examination Reforms in Higher Education for Universities and Colleges held in Christ University

**Dr. Mr. Sam Taraporevala**

“Smart Technology for Reaching the Unreached” at a seminar held by the Somaiya College, Mumbai- “Smart Technology for 21<sup>st</sup> Century Education”.

“Print Access: The Indian Story” at a national seminar on in India Habitat Center called “Edict 2010” (Enabling Access to Education through ICT).

“Reading and Watching in the world of the disabled: A New Perspective to Concerns and Solutions” at CUSAT, Cochin at their first annual national workshop for law students on "Re-thinking Intellectual Property Rights Studies" organized by inter university centre for IPR studies in association with HRD Chair on IPR, Cochin University of Science and Technology, Kochi.

**POSTER PRESENTATION**

**Dr. Rajendra Shinde**

- “New Horizons of Botany” At the Conference of Indian Botanical Society and International Symposium on the organized from November 10<sup>th</sup>-12<sup>th</sup>, 2010.

**Dr. Ms. Vivien Amonkar**

- “International Pairing of Two Student Populations Studying the Same Global Health Issues: Mumbai, India and Danbury, Connecticut, U. S. A.” Ruth Gyure Connecticut State University Danbury, Connecticut, U. S. A, Vivien Amonkar St. Xavier’s College, presented at the ASM Conference for Undergraduate Educators in San Diego, California U. S. A. May 2010

**PROJECTS: See Item 8**

**PUBLICATIONS: See Item 13**

## **H) ADMINISTRATIVE ORGANISATION OF THE COLLEGE**

### **ACADEMIC COUNCIL**

1. Dr. (Fr.) Frazer Mascarenhas S.J. *Principal*
2. Dr. Arun D'Souza S.J. ( *Rector*)
3. Dr. (Ms.) Vivien Amonkar *Vice-Principal (Academic*
4. *Improvement)*
5. Dr. (Ms.) Fleur D'Souza *Vice-Principal (Arts)*
6. Dr. (Ms.) Nandita Mangalore *Vice-Principal (Science)*
7. Fr.Conrad Pessa, S.J. ( *Secretary of the Trust & Treasurer*)

### **INTERNAL QUALITY ASSURANCE CELL (IQAC)**

1. Dr. Frazer Mascarenhas S.J.
2. Dr. Vivien Amonkar (Convener)
3. Dr. Nandita Mangalore
4. Dr. Fleur D'Souza
5. Dr. Shefali Balsari-Shah
6. Dr. Sheela Donde
7. Ms. Hermione Salazar
8. Dr. Dionysia Coutinho
9. Fr. Arun D'Souza
10. Ms. Neelam Shetty
11. Mr. Maurice Monis

### **STAFF COMMITTEES**

1. Committee for Cultural Activities
2. Committee To Conduct University Exams
3. Custodians Of Exam Papers For Final Exams
4. Examination Committee
5. Infotech Committee
6. Infrastructure Committee
7. International Council
8. I.M.G. Staff Committee
9. Library Advisory Committee
10. Magazine Committee
11. Malhar Staff Committee
12. Placement Committee
13. Scholarship Committee
14. TAQ Committee
15. Time-Table Committee
16. Unfair Means Committee
17. U.G.C. Committee
18. Women's Development Cell

### **I) COLLABORATION WITH CIVIL SOCIETY**

1st-3rd July	In collaboration with the Confederation of Indian Industry, Cii-Yi Xaviers took up various projects under 'Environment' and 'Slum Projects' including De-worming camps for school and slum children, Solar lanterns and Advanced Locality Management. Collected resourceful books from students and donated them thru' Cii's network of NGOs.
10th July	The Committee for the Release of Dr. Binayak Sen invited Dr. Anil Sadgopal, activist and educationist to speak on the issues surrounding Bhopal Gas Disaster, Public meeting held in the college.
11th July	Special Olympics Bharat Maharashtra organized the annual coaches meeting in the college where our Sports Director was resource person.
16th/17th Aug.	The Principal, St. Joseph's Degree & PG College, Hyderabad, visited the college to study the functioning of Autonomy
27th Aug.	A Launch Event, 'Inspired', a three day conference hosted by the Akanksha Foundation, Asia Society India centre, The American School of Bombay and Teach for India was held in the college.
13th Sept.	CII along with Young Indians (Yi) held a discussion on 'Seamless Integration of Skilling and Education' in partnership with Higher Education Forum (HEF) at the college wherein Govt. officials, academicians, corporates, industry bodies and students participated.
17th Sept.	In collaboration with 'Canopy' whose directors are former Indian Army officials who have served in Counter Terrorism and Anti Terrorism areas, Symposium held in the college on 'Counter Terrorism and the Public'.
13th Oct.	Prof. Patrick McGhee, Vice-Chancellor, University of East London, Prof. Lord Patel of Bradford OBE, University Director of Strategic Partnerships and Lady Yasmin Patel visited the college.
31st Oct.	Special Olympics Bharat Maharashtra conducted trial and selection in Floor Hockey for the special athletes in our basketball Court.
7th Nov.	U.S. President, Barack Obama & First Lady, Michelle Obama had a 'Town Hall' meet in the college with 100 students of the college. 50 students from H.R., Jaihind, St. Andrew's, Wilson College were invited to interact with the President of USA and his wife.
25th Nov.	The Bombay Catholic Sabha along with the Citizens Initiative for Peace (C.I.P.) held a public meeting on 'Police Reforms: For a Citizen Friendly Police' in the college where Ms. Kiran Bedi – IPS was the Chief Guest and Ms. Maja Daruwalla, Director of the Commonwealth Human Rights Initiative was the keynote speaker.
11th Dec.	The college provided accommodation for 11 outstation athletes and 3 coaches for one night (Special Olympics Bharat Maharashtra).
11th Dec.	Embassy of Colombia, New Delhi, held the Colombian Festival of Arts -

	Music Concert and Literary gathering in the college
13th Dec.	Doordarshan Kendra requested a photo shoot inside the college for a documentary on legend film actor, director and producer, Shri Guru Dutt.
16th Dec.	In collaboration with CLE International and The French Embassy a workshop organised for all school and college teachers teaching French language and literature.
24th Jan.	An evening of Musical Theatre with the Gandhi Ashram School, Kalimpong and the Xavier College Chorus, Mumbai.
27th Jan.	ICICI Foundation briefed the students on their initiative – the ICICI Fellows Programme.
11th April	The Committee for the Release of Dr. Binayak Sen, (CRBS), Mumbai in collaboration with St Xavier's College had the inaugural screening of the film 'A Doctor to Defend' directed by Minnie Vaid in the college Multi Media Room
6th May	The Consulate General of the Republic of Poland, Mumbai hosted a special Concert in the college hall as part of the Europe Day celebrations.
18-21st May	Lokshashan Andolan and Sabrang Trust in collaboration with the college organised the Citizens/People's Tribunal for Jaitapur and Nuclear Energy - Risk Factors programme in the college hall.

## **J) ENVIRONMENT FRIENDLY MEASURE ADDED**

- Solar Powered Computer Labs

## **PART-C**

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

The Plan of action involved initiation of new quality assurance measures and the enhancement of existing ones to catalyze the organizational development.

These included:

**a. Faculty – level development:**

- Organization of seminars and workshops for skill building
- Creation of a platform for sharing research ideas and work
- Orientation of new and inexperienced faculty into the work principles and culture of St. Xavier's and their introduction to teaching based on the Bloom's taxonomy
- Review of assessment mechanisms
- Appraisal of student performance at the level of each department
- Promotion of research by faculty at the UG and PG levels

**b. Student level development:**

- Provision of additional / advanced study material
- Initiation of additional courses for interdisciplinary work
- Establishment of cross faculty programs
- Training in Scientific Communication skills for science students

**c. Resource building:**

- Developing infrastructure
- Renovation of laboratories
- Setting up additional research facilities/up gradation of existing facilities
- Setting up PG laboratories

**d. Globalization;**

- Increasing the tie ups with foreign universities
- Promoting student / staff exchange activities
- Consideration of ways to recognize and transfer credits from universities of repute
- Hosting international seminars

**e. Parent interaction**

- Increasing parent involvement in college activities

**f. Alumni involvement**

- Strengthening the alumni base
- increasing their involvement in college activities
- Drawing alumni support in placement of students for internships/jobs

Name and signature of the coordinator  
IQAC  
Dr. Ms. Vivien Amonkar

Name and Signature of the  
Chairperson QAC  
Dr. (Fr.) Frazer Mascarenhas  
PRINCIPAL