



St. Xavier's College
(Autonomous)
Mumbai



Established in 1869

Inclusive Campus



HANDBOOK 2017-18

UGC "College of Excellence"

NAAC Accredited A-3.63

www.xaviers.edu

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The Cover Page (Front) and the Back Cover Pages have been designed by Joseph Aloysius [Asst. Prof., Dept. of Mass Media, St Xavier's College (Autonomous), Mumbai]. The College is grateful to Joseph Aloysius for this service.

The front cover carries a partial view of two of the buildings that form the perimeter of the 'First Quad'.

1. COLLEGE GOVERNANCE

1.1. GOVERNING BODY

Fr. Arun de Souza, S.J.	Provincial, Chairperson and Trustee
Dr. (Fr.) Anthony J. D'Souza S.J.	Rector, Vice Chairman and Trustee
Dr. Baptist Agnel Menezes	Principal, Ex-Officio Member
Fr. Terence Quadros, S.J.	Member
Dr. (Fr.) Roy Pereira, S.J.	Member
Dr. (Fr.) Conrad Pessa, S.J.	Member
Fr. Lawrie Ferrao, S.J.	Member

1.2. BOARD OF MANAGEMENT

Dr. (Fr.) Anthony J. D'Souza, S.J.	Chairperson
Dr. (Fr.) Conrad Pessa, S.J.	Management Rep.
Mr. V. V. Dalvie	Management Rep.
<i>To be announced</i>	UGC Rep.
<i>To be announced</i>	Govt. Rep.
Dr. Rajpal Hande	Univ. Rep.
<i>To be announced</i>	Univ. Rep.
Dr. Sam Taraporevala (<i>Till July 2017</i>)	Faculty Rep.
Dr. Hrishikesh Samant (<i>Till July 2017</i>)	Faculty Rep.
Prof. Vivien Amonkar	Alumna
Fr. Terence Quadros, S.J.	Alumnus
Dr. (Fr.) Roy Pereira, S.J.	Alumnus
Dr. Baptist Agnel Menezes	Secretary

1. COLLEGE GOVERNANCE

1.3. ACADEMIC BOARD

Names	Department	Names	Department
Dr. B. A. Menezes	Chairperson	Dr. N. Mangalore	Life Science & Biochemistry
Dr. A. Rane-Kothare	A.I.H.C.A.	Ms. M. Stewart	Microbiology
Dr. A. Sawant	Economics	Dr. S. Bodhane	Physics
Dr. P. Pastakia	English	Ms. M. Fernandes	Statistics
Ms. A. Palkhiwale	French	Dr. S. Krishnan	Zoology
Dr. A. Naithani-Dayama	Hindi	Dr. J. Singh	Voc.(SD)
Dr. P. Naitthani	Political Science	Ms R. Rani	Voc.(T)
Ms. R. Pavri	Psychology	Dr. S. Peters	Biotechnology
Dr. S. Taraporevala	Sociology & Anthropology	Mr. T. Roy	Information Tech.
Ms. S. Periyanyagi	Mass Media	Dr. H. Samant	Nominated Faculty
Ms. S. George Tharakan	Mgt. Studies	Dr. G. Shaikh	Nominated Faculty
Fr. E. Fernandes, S.J.	Commerce	Ms. M. Raijada	Nominated Faculty
Dr. R. Shinde	Botany	Mr. R. N. Vora	Nominated Faculty
Prof. F. Havaladar	Chemistry	Dr. M. Kagalkar	Govt. Rep.
Dr. P. Henriques	Geology	Dr. A. Nadkarni	Mgt. Rep.

1.4. EXAMINATION BOARD

Dr. Baptist Agnel Menezes	Chairperson
Mr. Dipak Wasave	University Controller of Exams
Mr. Marazban Kotwal	College Controller of Exams
Dr. Hoshang Master	Officer on Special Duty
Mr. Subhash Kumar	Member

1. COLLEGE GOVERNANCE

1.5. FINANCE BOARD

Dr. Baptist Agnel Menezes	Chairperson
Mr. V. F. Tayade	University Representative
Dr. (Fr.) Conrad Pessa, S.J.	College Treasurer
Ms. Madhuri Rajjada	Faculty
Dr. Hrishikesh Samant	Faculty

1.6. COLLEGE ADMINISTRATION AND SERVICES

Principal	Dr. Baptist Agnel Menezes
Vice-Principal (Academics); Director, IQAC	Dr. Gulshan Shaikh
Vice-Principal (Arts)	Ms. Madhuri Rajjada
Vice-Principal (Science)	Dr. Hrishikesh Samant
Vice-Principal (Commerce)	Fr. Errol Fernandes, S.J.
Controller of Examinations	Mr. Marazban Kotwal
Registrar	---
College and Trust Treasurer	Dr. (Fr.) Conrad Pessa, S.J.
Librarian	Ms. Medha Taskar
Director, of Sports	Dr. Thomas Pires
Student Counsellor & Director of S.S.L.	Fr. Terence Quadros, S.J.
Director, International Programmes	Fr. Roy Pereira, S.J.
Director, Knowledge Centre	Mr. Kevin D'Cruz
Administrative Officer	Mr. Babuji George
Asst. Hostel Warden	Mr. Joseph Aloysius

1. COLLEGE GOVERNANCE

1.7. COLLEGE ADDRESS

The Principal
St. Xavier's College (Autonomous),
5, Mahapalika Marg,
Mumbai 400-001, Maharashtra, India.

Phone: 91-22-22620661 / 2 / 5 or 91-22-22625195
Fax: 91-22-22617677 or 91-22-22659484

Email: webadmin@xaviers.edu

Website: www.xaviers.edu

1.7.1. CONTACT NUMBERS OF OTHER FACILITIES ON CAMPUS

Administrator:	22632024	Caius Laboratory:	22622799
Counseling Centre:	22625195	General Office (Direct):	22613358
Hostel :	22621785	Library:	22703522
I.M.G.:	22634558	X.R.C.V.C.:	22623298

1.8. RTI QUERIES

1.8.1. Public Information Officer (PIO): Ms. Grizel Menezes

1.8.2. Asst. PIO : Mr. Bipin Patil

1.8.3. Appellate Authority : Principal

1.8.4. For details please refer to the College Website (RTI Manual)

1.9. OTHER INSTITUTES ON CAMPUS

1.9.1. **Xavier's Institute of Management and Research (XIMR)**
Tel. No. 39511812

1.9.2. **Xavier's Institute of Communications (XIC)**
Tel. No. 22621366 / 1369

1.9.3. Please contact them directly for information about their Courses and the like, either through the link entitled '**INSTITUTES**', on the Homepage of our Website or through the respective Institute's given Telephone Number(s).

2. COLLEGE PROFILE

2.1. BACKGROUND

ST. XAVIER'S COLLEGE was founded in 1869 by the Society of Jesus, a Christian Religious Organisation started by St. Ignatius of Loyola. Since its very inception, the Society has significantly contributed to the field of education throughout the world, inspired by a vision of the human, drawn from the life, teachings and personality of Jesus Christ. In India, it was St. Francis Xavier, after whom the College is named, who began the educational work of the Society of Jesus. At present, in India, the Society runs 36 Pre-Primary / Primary / Middle Schools, 130 High Schools, 20 Technical Institutes and 33 Colleges. All these institutions form a part of the effort of the Catholic Church to share in the vital task of education.

St. Xavier's College is a Christian institution, started with the purpose of educating the Christian community in India. It extends its services to members of other communities as an effort at building a truly inter-religious and inter-cultural human community in the country. On January 30, 1869, it was affiliated to the University of Mumbai. It became a Constituent College of the University, as a result of the Mumbai University Act 1953. It is entrusted by the University with the task of preparing students for degrees in Arts, Science, Commerce, Mass Media, Management Studies and Information Technology.

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 humankind's store of knowledge. The College stands for academic excellence and endeavours to create an environment, which generates a love of learning, a habit of critical thinking and the ability for accurate expression. It strives after character formation based on the love of God and the service of humanity, with a view to training citizens, who will be remarkable for all-round development and a sincere commitment to God and Country.

St. Xavier's College, thus, endeavours 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 religious and moral values enshrined in the Constitution of India, shall be upheld, and that all men and women shall live in keeping with their human dignity and self-respect. The environment and inclusive education are of special concern to St. Xavier's College. Hence, the College strives towards making a committed and significant contribution towards these issues.

The Society of Jesus exercises its responsibility over St. Xavier's College through a Governing Body, whose Chairman is the Provincial of the Mumbai Province of the Society, Vice-Chairman is the Rector of the

2. COLLEGE PROFILE

College and the Secretary is the Governing Body's Chief Executive. St. Xavier's College – Autonomous, affiliated to the University of Mumbai, conducts the B.A., B.Sc., and B.Com. Government Aided Degree Courses on campus along with the B.M.M., B.M.S. and B.Sc. I.T. Degree Courses on a Self-Financing Basis. Masters Courses (Aided) in Botany, Geology, Life Sciences, Microbiology and Ancient Indian History, Culture and Archaeology, M.Sc. Biotechnology (Self-Financing) and M.A. in Public Policy (Self-Financing) are also conducted. The College has also introduced (since 2014-15) the UGC sponsored Vocational Degree Courses in Tourism and in Software Development. The University of Mumbai awards Degrees for the above mentioned courses. Diploma / Certificate courses on Clinical Research, Data Science, Forensic Science and Criminal Law, Gemology & Gem Appreciation, Counselling Psychology and Aspects of Ancient Indian History, Culture and Archaeology are also held in collaboration with other Institutions or groups.

2.2. RECENT ACHIEVEMENTS OF THE COLLEGE:

- 2.2.1. **MHRD's National Institute Ranking Framework (NIRF) (2017): 40th Rank** (College Category) at the National level.
- 2.2.2. **Heritage Grant** (2015) awarded by the UGC, under the MHRD, Government of India.
- 2.2.3. **'College of Excellence' Award** (April 2014) by the UGC, under the MHRD, Government of India.
- 2.2.4. Certificate of Excellence by the Associated Chambers of Commerce & Industry of India (ASSOCHAM) for **Best Institute Serving a Social Cause** (February 2014).
- 2.2.5. **Department of Biotechnology (DBT) Star Status** (2014) to Botany, Chemistry, Life Science, Microbiology, Physics & Zoology. **DBT Star Scheme Grant** to Maths. (2015) and Stats. (2016).
- 2.2.6. College secured an **A Grade (GPA: 3.63 / 4)** in the third cycle of accreditation (2013) by NAAC.
- 2.2.7. The University of Mumbai notified St. Xavier's College as the first **Autonomous College** of the University, from June 2010. An **Extension of Autonomy** from January 20th, 2017 was granted in April 2017.

2. COLLEGE PROFILE

2.3. UNDERGRADUATE COURSES

2.3.1. Aided Courses				
Arts	Science	Commerce	Vocational	
			Tourism	Software Dev.
B. A.	B. Sc.	B. Com.	B. Voc.	B. Voc.
8 am to 2 pm	8 am to 4 pm	5.50 pm to 9.20 pm	1 pm to 6 pm	

Note: Classes of the Commerce Faculty are conducted in the late evening, primarily to encourage working students of a disadvantaged background to enroll.

2.3.2. Self-Financed Courses		
Management Studies	Mass Media	Information Technology
B.M.S.	B.M.M.	B.Sc. (I.T.)
8 am to 1 pm		8 am to 4.20 pm

2.4. POST-GRADUATE COURSES

ARTS		SCIENCE	
M.A.	Ph.D.	M.Sc.	Ph.D.
Ancient Indian Culture & Archaeology (A.I.C.A.)*	A.I.H.C.A.	Botany *&**	Botany
Public Policy * &#	Avesta-Pahlavi	Chemistry **	Chemistry
	History	Geology *&**	Geology
	Hindi	Life Sciences *&**	Life Sciences
		Microbiology * & #	Zoology
		Biotechnology * & #	

Note: '*' = By Papers; '**' = By Research; '#' = Self-Financed

2. COLLEGE PROFILE

2.5. DISCIPLINES IN ARTS				
A.I.C.A.	Anthropology	Commerce	Economics	English
French	Hindi	History	Political Science	Psychology
Public Policy	Sociology	Statistics	Tourism	

2.6. DISCIPLINES IN SCIENCE			
Biochemistry	Biotechnology	Botany	Chemistry
Economics	Geology	Life Science	Mathematics
Information Technology	Microbiology	Physics	Statistics
Software-Development	Zoology		

2.7. DISCIPLINES IN COMMERCE : Accountancy
2.8. DISCIPLINES IN MANAGEMENT STUDIES : Marketing & Finance
2.9. DISCIPLINES IN MASS MEDIA : Advertising; Journalism

3 COLLEGE FACILITIES

3.1. CORE INFRASTRUCTURE

Library: The College Library provides print & electronic resources for all academic and related activities of the students and staff, services for the retrieval and use of these resources and adequate infrastructure and spaces for their use. An online database of the books and journals is maintained and access to these is provided through five OPAC (On-line Public Access) terminals in the library and a link on the College website. The library has initiated an Institutional Repository by digitalizing rare books and college publications. The library is open from 9.00 a.m. to 8.00 p.m. on all working days only. The College Librarian is Ms. Medha Taskar.

3.1.1.1. Reference Library (RL) It includes: The heritage structured RL has Reserve Counters with text books, current issues and bound volumes of journals, reference books, special collections, photocopying services, two peer-learning cubicles for group discussions and study, separate study area for staff, electric charging points, WiFi along with four terminals for internet access and CD / DVD viewing. A photocopying facility exists near the RL.

3.1.1.2. Lending Library (LL): The Open Access LL with a mezzanine floor, houses about 60000 books. The LL has a paperback collection, newspapers and magazines reading facilities, the Issue & Return counters as well as reading spaces.

3.1.2. Computer Center: It is called the 'Xavier Knowledge Centre' and was established in 2006. It is solar-powered and is situated on the First Floor of the Hostel Building and includes 5 Computer Laboratories having about 125 computers in all. One of the Computer Labs has a Video Conferencing facility. The Centre supports all the curricula computer courses. It also holds courses in collaboration with other organizations. Mr. Kevin D'Cruz is its current Director.

3.1.3. Gymkhana (1954): It is called the Fell Gymkhana (after its founder Fr. Fell S.J.) It has facilities for Body-building, Badminton, Table-Tennis, Carrom and Chess. The College has full-size Basketball and Volleyball Courts. The College has leased from the BMC the use of a cricket pitch on Azad Maidan. Dr. Thomas Pires is the Director and he is assisted by other Coaches for different sports, as and when the need arises.

3 COLLEGE FACILITIES

3.1.4. Multi-Media Centres:

3.1.4.1. **The Smith Centre for Audio-Visual Instruction (SCAVI)**, was inaugurated in December 1979. It has audio-visual instruments and techniques at the service of staff and students. It has a seating capacity of 100. It has been renovated under grants from the Sir Dorabjee Tata Trust.

3.1.4.2. **The Multi-Media Room (MMR)** is a centralized facility for Multimedia-based instructions and presentations for our staff and students. It has a seating capacity of 120. It has been renovated under grants from the Sir Dorabjee Tata Trust.

3.1.5. **Common Rooms:** There are separate Common Rooms for male and female students as well as for the teaching and non-teaching staff members.

3.1.6. **Canteen and Foyer:** This is a spacious area with a view of greenery. A variety of refreshments and meals available here. It is a place on the campus not only for leisure and refreshment but also for student bonding, discussions and even for working on assignments and projects.

3.1.7. **Hostel:** The campus hostel is only for male students of the First and Third Years Senior College. Apart of the College Canteen serves as the Hostel Mess and it serves subsidized meals and refreshments to hostelites and guests. Some of the rooms in the hostel are for two occupants and some for three occupants. Applications are accepted only after admission to the College has been secured. The College Principal is the overall in-charge of the Hostel.

Regina Pacis Hostel in Byculla usually accommodates about 30 women students of the College.

3.1.8. **Counselling Centre:** It was founded in 1954. It provides the following services: Personal Counselling - interviews for better personal and social adjustment; Personality Evaluation Tests for self-improvement; Vocational Testing; Information on careers, professions and specialized studies in India and abroad; Information on scholarships and financial assistance schemes; help in the admission of students and in organizing orientation programmes for freshers. Fr. Terence Quadros S.J. is the Director.

3 COLLEGE FACILITIES

- 3.1.9. Placement Centre:** This Centre endeavours to put students in touch with reputed employers, to train students in the writing of a CV and to acquaint them with the selection process of corporates. A Staff-Student Committee operates this Centre. Ms. Soni George Tharakan is the current Placement Committee Convener and Mr. Dominic Fernandes is the Placement Officer.
- 3.1.10. First-Aid Centres:** Basic 'First-Aid' is available with the College General Office (CGO) (Ms. Grizel Menezes) and the Counselling Centre (Fr. Terence Quadros, S.J.). The CGO personnel will facilitate the calling of a doctor in case of an emergency or the shifting of the concerned person to either G.T. Hospital or Bombay Hospital. A stretcher or a wheelchair is available with the Security at the gate. The College also has an Infirmary for catering to the needs of those staff / student who suddenly fall sick on Campus.
- 3.1.11. Administrator's Office and Workshop:** This Office coordinates all the maintenance services on the campus.
- 3.1.11.1. Disaster Management:** In case of campus mishaps immediately contact the College Administrator (Ext.336) or the College Receptionist (333) or the Principal (301). Contact with College authorities is possible on phone lines: 22620661 or 22620665 through the use of a mobile.
- 3.1.12. St. Xavier's Villa (Khandala):** It is spacious set up in the midst of the Khandala hills and dales. It is about 20 minutes' walk from the Khandala Railway Station. It is open to the College staff and students for retreats, seminars and educational conferences. It includes a small chapel, a dining room, two conference halls and about 40 rooms (with single, double or triple occupancy). A caterer provides regular meals. Bookings have to be done through the Treasurer's Office of the College.
- 3.1.13. The College Merchandise Shop** (which also sells stationary material) exists on the ground floor of the Administration Building.

3.2. CORE FORUMS

- 3.2.1. Students' Council:** The College has a long tradition of student participation in decision-making. Students on the Council serve as representatives of the students of each class.
- 3.2.2. Extra-Curricular Committee (ECC):** It consists of faculty and students. It coordinates all the cultural and other extra-curricular

3 COLLEGE FACILITIES

activities on campus and also monitors the extra-curricular involvement of each student in his / her attempt at completing 60 hours of such activities to earn the mandatory Extra-Curricular Non-Academic Credits. It is advisable for students to check the College website for the ECC data submission procedure. Dr Ashma Aggarwal is the current Convener.

3.2.3. Grievance Redressal Mechanism: The Grievance Redressal Committee made up of the 4 Vice-Principals and the College Treasurer. It looks into any formal complaints made by students or faculty and recommends action to the Principal. Complaints may be made either to the Principal or directly to any of the members.

3.2.3.1. For academic grievances, the student should first approach the Head of the Department concerned, if the Lecturer in question is not open to dialogue. The student may then approach the concerned Vice Principal or the Principal.

3.2.3.2. For personal matters or regarding facilities on campus, students are encouraged to meet their Lecturers or the concerned Vice Principal or even the Principal.

3.2.3.3. The Students' Council is also a channel for such issues.

3.2.3.4. Suggestions (feedback / feed-forward) to improve the quality of life on campus are welcome. Confidentiality is assured by the College authorities in this case.

3.2.4. Women's Development Cell (WDC) (2006): It coordinates programmes for awareness and action on women's issues. It also constitutes the Gender Grievance Redressal Cell for complaints of sexual harassment or discrimination. Ms. Linda Dhakul is the current Convener.

3.2.5. Inclusive Education (Provisions for Students with Disabilities):

3.2.5.1. Inclusive Education Policy

The institute is committed to equal opportunity admission based on merit to all students with or without disability. The College has a support service available for students with disabilities as also an Inclusion Cell that looks at concerns and solutions for effective Inclusive Education practices.

If a current or prospective student with disability has any queries please contact Dr. Sam Taraporevala or Neha Trivedi, XRCVC, neha@xrcvc.org / sam@xrcvc.org; 022-22623298 / 022-22626329.

3 COLLEGE FACILITIES

3.2.5.2. Inclusive Education Accommodation Request Process:

It is imperative for students with disabilities who seek to have any accommodations during their course of study to complete the process of submitting the Accommodation Intake Form within the first 15 days from having secured admission (for new students) and the Accommodation Continuation Form within 15 days from the start of the new academic year (for students continuing in College). Any delays in not meeting the deadline to submit the form will be taken as the student not needing any accommodation. It should be kept in mind that in the event that the student has not filled the Accommodation Intake Form, the college is then not mandated to provide any accommodation services.

3.2.5.3. Any student seeking accommodation needs to seek an appointment with Ms Neha Trivedi, Co-ordinator, Students with Disability, XRCVC as soon as possible on grant of admission / beginning new academic year.

3.2.5.4. After the meeting with the co-ordinator the student is to fill the Intake / Continuation Form within 15 days of granting of admission / start of academic year. The same has to be downloaded from the college website under the Inclusive Education Tab and submitted to Ms. Neha Trivedi, XRCVC.

3.2.5.5. Last date for submitting the forms for 2017-18:

3.2.5.5.1. F.Y.J.C and First Year Degree College: 15 days from date of admission granted.

3.2.5.5.2. S.Y.J.C / Second Year & Third Year Degree College: 20th June 2017.

3.2.5.6. The student will be granted their Accommodation Letter after being passed by the Coordinator of the College Inclusion Cell.

3.2.5.7. The student is then expected to go and share a copy of their letter with all their Class Teacher / HoDs, Course Teachers, Controller Examiner and the Resource Centre Coordinator within 7 days of them being issued the letter. If the student fails to share this letter with respective authorities within 7 days of its issue to them, the college may not be in a position to provide the support granted.

3 COLLEGE FACILITIES

3.2.5.8. For details of provisions (Academic and Examination) available for students with disabilities please read the Intake Form / Continuation Form.

3.2.5.9. In case of any grievances with the accommodations granted the students may approach the Principal.

3.2.5.10. In case of any Special Request not included in the Intake / Continuation Form the student to make a direct application to the Principal.

3.2.5.11. Inclusive Education Facilities on Campus

3.2.5.11.1. Xavier's Resource Centre for the Visually Challenged (XRCVC): This centre, for visually challenged persons (VCPs), is supported by individuals, Trusts and Corporates. It is technologically equipped with various screen readers, screen magnifiers, text to speech converters, tactile graphical creation systems, Braille machines, et al. The XRCVC is involved with:

- i. Student Activities:** Student training (computer, mobility and Braille) and volunteer co-ordination.
- ii. Social Advocacy:** Addressing accessibility issues of VCPs at local, regional and national levels.
- iii. Awareness Generation** on the lives of persons with disability among all stakeholders and people at large.

Dr. Sam Taraporevala is the moving force behind the Centre (website www.xrcvc.org).

3.2.5.11.2. Inclusion Cell: This is a Staff-cum-Student Representative Committee that looks into all inclusion and accessibility needs and initiatives on campus. Grievance by student with disability can be addressed to the Inclusion Cell – he / she may contact principal@xaviers.edu. The cell is headed by the Principal.

For students with disabilities seeking admission to the college please refer to Section 3.2.5 (page 12) for details on procuring provisions during the course of study. It is mandatory for the students to complete the Intake Form process listed under the said section within 15 days of receiving admission.

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For examination accommodations available for students with disabilities and the process to avail the same please refer to Section 3.2.5 (page 12) and the college website www.xaviers.edu tab of Inclusive Education.

As per Government of Maharashtra GR dated 4th March 2017 the following provisions are available on request and approval by the Principal for Cancer Patients for their examinations: Use of Typewriter / Different type of pencil, pen, gripper / Use of Writer (based on requirement only) / Use of Computer. Permission to have a person, in whom the student has faith, be allowed to remain present near the examination hall.

3.3. ADDITIONAL ACADEMIC FACILITIES

- 3.3.1. Blatter Herbarium:** It was started at the end of the 19th century. By 1918 a very large number of plants were gathered by Fr. E. Blatter, S.J., his associates and students. The Herbarium was named after Fr. Blatter in 1941. It contains the largest collection of plants in Western India. It provides facilities for the study of Plant Systematics and has a well-stocked library on Systematic Botany. The Herbarium has received the Sir Ratan Tata Trust Grant for upgradation and digitization of the plant database. Dr. Rajendra Shinde is the present Director.
- 3.3.2. Caius Laboratory for Inter-Disciplinary Research (1947):** It was established to carry out drug research and was named after Fr. J. F. Caius, S.J. It was restructured and equipped with new instruments. It functions as a research and coordination centre for all the Science Departments. In this Lab a strain of *Streptomyces* was identified. It has been supported by grants from industry and from UGC, UNDP, et al. Dr. Priya Sundarrajan is the Director.
- 3.3.3. Central Instrumentation Facility (C.I.F.) (2006):** This is a facility with sophisticated equipment acquired mainly through a DST-FIST Grant and UGC's 'College of Excellence Scheme'. It is a part of the Caius Research Laboratory.
- 3.3.4. Heras Institute of Indian History and Culture (1926):** Initially, it was called the Indian Historical Research Institute, by Fr. Henry Heras, S.J., and on his death in 1955, it was renamed after him. The Heras Institute, with its well-stocked Research Library and

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Museum, provides guidance and facilities for Post-Graduate research in Ancient, Medieval & Modern Indian History, Indian Art & Literature, Indian Religions & Culture. Its Research Journal is called INDICA (since 1964). The current Director is Dr. Joan Dias.

3.3.5. Nadkarny–Sacasa Research Laboratory (1972): It provides modern research facilities in Chemistry and connects research with industry. It can support 20 Post-Graduate research students in Chemistry and has produced several doctorates. Dr. (Fr.) Roy Pereira S.J. is the current Director.

3.3.6. Xavier’s Visual Arts Studio (2014): It is equipped with: professional quality digital cameras (still and moving), lighting equipment and an A.V. editing set up. This facility is open to all our College students. Students from the Arts & Science faculties use this studio to enhance their course projects with the basic techniques of visual presentation. The Mass Media Department of the College is in-charge this studio.

3.3.7. St. Xavier’s Language Laboratory: It is equipped with the latest in Language Acquisition Technology. It caters to both new and advanced learners in English, Hindi, French and Marathi. Ms. Rashmi Mehta currently the Facility-in-Charge.

3.4. CO- AND EXTRA-CURRICULAR FACILITIES

3.4.1. Department of Inter-Religious Studies (1987): It fosters an understanding and appreciation of religions, communal harmony and national integration. Its motto is Cocrete Cosmic Compassion and it motivates people of all faiths to work together for ecological harmony. It offers mediation sessions, courses for QEP, seminars, public lectures and exposure programmes. It hosts *Samanvaya*, a forum for Communal Harmony. It publishes an annual magazine *Tarang*. The AICUF & DIRS jointly organize the Inter-Faith Prayer Services and Masses on special occasions in the College. The Director is Fr. Prashant Olalekar, S.J.

3.4.1.1. Chapel-cum-Prayer Hall: The Chapel is open during college hours to students and staff of all faiths who would want time for quiet and prayer. The Eucharist is held 4 times a week for Catholic students and staff, during the class break timings.

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- 3.4.2. Council of International Programmes (CIP):** It facilitates students' engagement with the best global educational institutions. It sends students for one-year exchange programmes to the USA, Canada, Europe and S. Korea. CIP also organizes short student exchange programmes to University of Berkeley, Yale University, Harvard University, University of Tokyo and University of Dundee. Short Faculty-Exposure-Programmes to these Universities are also organized by CIP. Dr. (Fr.) Roy Pereira S.J. is the Director.
- 3.4.2.1. Study Abroad Counselling Centre (SACC) (2012):** It helps students get admission into PG programmes at various foreign Universities; in selecting Universities, preparing for TOEFL / GRE, completing Visa and pre-departure formalities. Ms. Rashida Haidermota is in-charge of SAAC.
- 3.4.3. Quest for Excellence Programme (QEP):** It was previously called 'Honours Programme'. It aims at providing an intellectual challenge to students. It seeks to go beyond the regular syllabi, to provide scope for greater student participation and to promote creativity in the learning process. Through assignments, seminars, projects and displays, it makes learning an exciting academic pursuit. Over three years, students can accumulate a minimum of 7 credits, of which: 5 must be from the Department / Hub in which the student has registered; 2 Transfer Credits from any other discipline / Hub. A Certificate of Merit is awarded to students who successfully complete the Programme. It is always headed by the Vice-Principal (Academics).
- 3.4.4. Learning for Life Programme:** It seeks to enlarge the scope of learning to other areas of accomplishment. It includes courses in Personality Development, Public Speaking, Self-Defence, Photography, Calligraphy, etc. The ECC handles this programme.
- 3.4.5. Jagruti Programme:** It started about 50 years ago as the Personality and Human Values Programme and has now been renamed '*Jagruti* Programme'. In this academic year it will be implemented only for the Junior College. Group dynamics techniques will be used to teach students how to grapple with various issues of life. Under Autonomy, a Course entitled 'Giving Voice to Values' has been added to the curriculum.
- 3.4.6. College and Departmental Fests / Conferences:** The College encourages the organizing of Fests / Conferences as it trains

3 COLLEGE FACILITIES

students in organizing and leadership skills. Nearly every department organizes such activities at the intra and / or inter college levels (refer section 3.5.5., page 19 for more information).

- 3.4.6.1. **Malhar** is an annual inter-collegiate 3-day festival held in August. Along with the cultural component, it also holds 'Conclave' as its intellectual component.
 - 3.4.6.2. **Paradigm** is an inter-collegiate Science Festival held in January. It includes a conference, an exhibition and other academic events.
 - 3.4.6.3. **Jan-Fest** is a 2-day festival that celebrates Indian Classical Music in January. This is a finale of a series of musical concerts that IMG organizes (refer 3.5.1, page 18).
 - 3.4.6.4. For the departmental fests and other extracurricular programmes please refer 3.5.5.
- 3.4.7. **Social Involvement Programme (SIP):** It began in 1996 with the aim of making education more socially relevant. Students are encouraged to learn through direct involvement with Indian society as 'when the heart is touched by direct experience, the mind is challenged to change'. Students work with street and slum children, physically and mentally challenged individuals, orphans, domestic workers, hospital patients and senior citizens. Under the guidance of two qualified Social Workers, students are required to serve for a minimum of 45 hours with an NGO and 5 hours of SIP activities connected with any of the academic disciplines that college offers. The Principal is in charge of this department.

3.5. COLLEGE ASSOCIATIONS

- 3.5.1. **The Indian Music Group (I.M.G.) (1973):** It aims at promoting Indian Classical Music in the city. It organizes concerts, lecture-demonstrations and music appreciation courses. Jan-Fest, its annual Indian classical music festival, is very highly rated. In 1984, an air conditioned library was set up with an enviable collection of LP's and tapes, inclusive of several thousand hours of recorded live performances. Dr Bhaskar Saha runs the IMG with the help of a Staff-Student Committee.
- 3.5.2. **The Social Service League (S.S.L):** This started more than 50 years ago. It caters to the altruistic sensibilities of students. Its activities include an exhibition on a socially relevant theme, an annual Rural Work Camp, Project Care (a two-day programme for children who are economically and/or differently challenged), visits

3 COLLEGE FACILITIES

to homes for the disadvantaged and similar activities. Fr. Terence Quadros, S.J. is the Director.

3.5.3. All India Catholic University Federation (AICUF): Inspired by Christian values, the AICUF, a national youth organization, gives students an opportunity to develop an all-round personality through leadership training, social commitment and cultural activities. It organizes the College Choir and encourages participation in drama and other means of self-expression. Its national slogan is 'We are born into an unjust society and we are determined not to leave it as we have found it'. Fr. Prashant Olalekar S.J. is the Unit Adviser and Fr Roy Pereira S.J. is the State Adviser.

3.5.4. St. Xavier's Alumni Association: It was started in 1903 to cater to alumni/ae who would like fellowship and contact with their Alma Mater, the Association has seen illustrious ex-students involved in its activities.

3.5.5. Activities of Departments / Associations / Bodies in College

Department	Association	Publication	Fest / Programme
College Fest	—	—	Malhar; TedX; Paradigm; Jan-Fest
Faculty Research Journal	—	XPLORE	—
A.I.H.C.A.	—	RCA	<i>Vividha</i>
Biotechnology	—	Palindrome	—
Chemistry	Xavier's Association of Chemistry – XAC	Elemental	—
Commerce Section	—	Trends	—
Dept. of Inter-Religious Studies	—	<i>Tarang</i>	—
Economics	Eco-Circle	<i>Arthniti</i>	<i>Econundrum</i>
English	English Association	<i>Ithaka</i>	—
Extra-Curricular Credit Committee	—	—	ECC Carnival
French	—	<i>A La Francaise</i>	—
Geology	—	Terra	—
Heras Institute	—	Indica; The Bombay Explorer	—

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Department	Association	Publication	Fest / Programme
Hindi	Hindi <i>Sahitya</i> , <i>Sangeet & Natya</i> Academy	<i>Ankur</i>	<i>Antas</i>
History	_____	<i>Aitihāsik</i>	_____
Life Science & Biochemistry	_____	Lignum Vitae	_____
Management Studies	_____	Insight	<i>Zephyrus</i>
Mass Media	Media Circle	The Catch Phrase	<i>Zeitgeist</i>
Mathematics	_____	The Proof	Confluence
Microbiology	Undergraduate Microbiology Association (UMAX)	Michronicle	_____
Physics	Physics Circle	Celeritas	_____
Political Science	Political Science Association	<i>Samvad</i>	_____
Psychology	Psychology Association	Uncommon Sense	_____
Sociology & Anthropology	The Academy of Sociology & Anthropology	<i>Eidos</i>	_____
Statistics	Stats Society	The Plot	Confluence
Zoology	Xavier's Zoology Association	Imprint	_____
_____	AICUF	AICUFer	_____
_____	Film Club	_____	Countdown
_____	Marathi <i>Vangmaya</i> <i>Mandal</i>	<i>Tejomaya</i> (Diwali issue); <i>Pakharan</i>	<i>Aamod</i>
_____	Student Council	Xpress	_____
_____	The Debate Society	_____	_____
_____	The Photography Society	_____	_____

4. COLLEGE ADMISSION PROCESS

4.1. ADMISSION POLICY

- 4.1.1. Admission of students into the Autonomous Degree Courses will be on the basis of the aggregate marks in the qualifying examination or its equivalent, for both the Undergraduate (UG) and the Postgraduate (PG) courses, unless specified otherwise.
- 4.1.2. For the Bachelor in Mass Media (B.M.M.) & Bachelor in Management Studies (B.M.S.) Courses, students come from all 3 faculties (Arts, Science & Commerce) where the marking systems are very different. Hence, an Entrance Test for these courses will be conducted for admission purposes. Admission procedure for B.M.S.& B.M.M. is:
 - 4.1.2.1. **Stage I:** Screening: 60 % weightage to Entrance Test (Objective Question Paper) and 40 % weightage to Class XII aggregate marks.
 - 4.1.2.2. **Stage II:** Final Selection: 30 % weightage to Class XII aggregate marks and 70 % to the written-matter-based personal interview.
 - 4.1.2.3. A candidate can apply in only one category (refer Table 4.2 on page 23).
- 4.1.3. For M.A. in Ancient Indian Culture and Archaeology, an Entrance Test will be held for students from faculties other than Arts and other Universities.
- 4.1.4. All applications for admissions to any UG or PG degree course should be submitted by the date notified by the College. Late applications may not be accepted.
- 4.1.5. Admissions will be considered to be completed only when the full fees for the academic year are paid (against an official receipt) and the name of the applicant appears on the relevant rolls. Payment in full or in part can be condoned or deferred only by the Principal.
- 4.1.6. All UG and PG admissions are valid only for one year and are therefore to be renewed for each subsequent year of study.
- 4.1.7. A student will not be re-admitted to the College if he / she has:
 - 4.1.7.1. Had three unsuccessful attempts at the same examination.
 - 4.1.7.2. Been debarred twice within the first four semesters.
 - 4.1.7.3. Had serious complaints of indiscipline against him / her in that year.

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4.1.8. The College is a Catholic Minority College, administered under the provisions of the Indian Constitution, to promote the welfare of the Minority community. Reservation of seats is done as per the Directives given in the University of Mumbai Circular No. Spl. Cell / (68) / 218 / 2005 dated 3rd June, 2005. Hence, the admission intake is as shown in Table 4.1 and Table 4.2:

Table 4.1

F.Y.B.A. (360 seats), F.Y.B.Sc. (360 seats)& F.Y.B.Com. (240 seats)	
Category	Percentage of Seats
TOTAL SEATS 100% (360)	
Management Quota 15% of 100 % (360) seats (i.e., 54 seats)	Only for those the College is obliged to admit.
BALANCE SEATS 85%	
Christian Minority 50% of 85% (306) seats (i.e., 153 seats)	<ul style="list-style-type: none"> i. First preference to all In-house students. ii. Vacant seats will be filled in by candidates applying from other Colleges / Boards in order of merit
General Category 25% of 85% (306) seats (i.e., 77 seats)	<ul style="list-style-type: none"> i. First preference to all In-house students. ii. Vacant seats will be filled in by candidates applying from other Colleges / Boards in order of merit
Reserved Category (SC / ST / DT(A) / NT(B) / NT(C) / NT (D) / OBC / SBC) Visually/Physically Challenged and Special Category** (refer 4.1.10.) 25% of 85% (306) seats (i.e., 77 seats)	<ul style="list-style-type: none"> i. First preference to all In-house students. ii. Vacant seats will be filled in by candidates applying from other Colleges / Boards in order of merit

4. COLLEGE ADMISSION PROCESS

Table 4.2

F.Y.B.M.S. (60 seats); F.Y.B.M.M. (60 seats); F.Y.B.Sc. (I.T.)* (60 seats)	
Category	Percentage of Seats
TOTAL SEATS 100% (60)	
Management Quota 15% of 60 seats (i.e.,9 seats)	Only for those the College is obliged to admit
BALANCE SEATS 85% (51)	
Christian Minority 50% of 51 seats (i.e.,26 seats)	Admitted on the basis of their merit rank which is based on performance at the Entrance Test as described in 4.1.2. on page 21
General Category 25% of 51 seats (i.e.,13 seats)	Admitted on the basis of their merit rank which is based on performance at the Entrance Test as described in 4.1.2. on page 21
Reserved Category (SC / ST / DT(A) / NT(B) / NT(C) / NT (D) / OBC / SBC) Visually/ Physically Challenged and Special Category** (refer 4.1.10.) 25% of 51 seats (i.e.,12 seats)	Admitted on the basis of their merit rank which is based on performance at the Entrance Test as described in 4.1.2. on page 21

4.1.9. *Admissions to B.Sc. (I.T.) will be based on the marks scored in Mathematics at the Class XII Board Exam. Hence, there are no Entrance Test for B.Sc. (I.T.) admissions.

4.1.10. ** Special Category refers to:

- 4.1.10.1.** Wards of Transferred State / Central Govt. and Pvt. Sector employees, employees of Defence Dept. / ex-servicemen.
- 4.1.10.2.** Wards of Freedom Fighters, physically handicapped candidates, and students who have met with accidents.
- 4.1.10.3.** Award Winners at the District / State / National Levels in Sports or Cultural Activities.

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4.2. ADMISSION PROCEDURES:

- 4.2.1. Applications for admissions to the B.M.M. and B.M.S. courses are to be submitted online, and the admission process includes an Entrance Test. Please look up the details on the Home Page of the College website. Online applications for these two courses are accepted from the 1st May to the 30th May of the concerned academic year.
- 4.2.2. The College has an **ONLINE Application System** through a facility on its website. This facility will be available from the last week of May. This site can be used for: B.A. / B.Sc. / B.Com. / B.M.M. / B.M.S. / B.Sc. (IT) / B.Voc. (Tourism or Software Development); and, the First Year Masters Courses which include M.Sc. in Botany, Biotechnology, Geology, Life Sciences and Microbiology, and M.A. in AICA and Public Policy. An incomplete application will not be considered for admission.
- 4.2.3. Admission to B.Com.is through the College Office (Commerce Section), by filling up and submitting a form, and through an interview with the Vice Principal (Commerce) or his representative.
- 4.2.4. The University of Mumbai has made it mandatory for all candidates seeking admission to the First Year courses in the Degree Colleges to fill in the 'Pre – Admission Online Registration Form' which is available on (<http://mum.digitaluniversity.ac>).
- 4.2.5. Actual admissions to all courses will be on the announced days, through an interview of the candidate and a Parent/Guardian. The offer of admission will be notified on the website, on the College Notice Board and through an email. On being admitted, the student shall immediately submit the following documents (**Original** plus attested photocopies):
- 4.2.5.1. Class XII Statement of Marks
 - 4.2.5.2. Baptism Certificate (for Minority Christian Community only)
 - 4.2.5.3. Caste Certificate (wherever applicable)
 - 4.2.5.4. Documentary Evidence for Special Category Status (Refer Section 4.1.10. from 4.1.10.1. to 4.1.10.3., page 23)
 - 4.2.5.5. Passing Certificate (required for getting the Eligibility Certificate)
 - 4.2.5.6. Migration Certificate (required for getting the Eligibility Certificate)

4.3. ELIGIBILITY CERTIFICATE

- 4.3.1. Candidates passing Class XII Examinations from Foreign Boards and students passing from International Baccalaureate or 'A' levels examinations - General Certificate of Education / Cambridge International School Exam of Cambridge or University of London must first obtain a 'PRIMA FACIE' Eligibility Letter from the University of

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Mumbai for the purpose of admissions to all First Year Degree Courses, namely B.A. / B.Sc. / B.Com. / B.M.M. / B.M.S. / B.Sc. (IT) / B.Voc. (Tourism or Software Development).

4.3.1.1. The address of the Eligibility Department is:

The University of Mumbai,
Eligibility Section, Kalina Campus,
Santacruz (East), Mumbai – 400 098

4.3.1.2. **Note:** For Foreign Boards, the Class XII Examination has to be cleared in one sitting only.

4.3.2. Students passing the Class XII from Boards / Universities other than Maharashtra State Board and seeking admissions to First Year B.A. / B.Sc. / B.Com. / B.M.M. / B.M.S. / B.Sc. (IT) / B.Voc. (Tourism or Software Development) are required to apply for a **Provisional Eligibility Certificate** through the College at the time of admission. The application form is available in the College Office. It should be duly filled, submitted with an attested copy of the Class XII marksheet and a passport size photograph along with the prescribed fees of Rs.320 and verification of document fees of Rs.500 (Total Rs.820) to the College Office. Post admission, confirmation of eligibility is initiated by the College Office, with the help of documents listed in 4.2.5.(page 24).

4.4. FEES FOR SENIOR COLLEGE:

4.4.1. Tables 4.3 & 4.4 give the total fees to be paid for Self-Financed and Aided courses respectively. These fees include Deposit and Laboratory Fees, as sanctioned by the Board of Management, St. Xavier's College (Autonomous), Mumbai:

Table 4.3

Class	Fees (approx.)
F.Y.B.M.M.	Rs. 29553
S.Y.B.M.M.	Rs. 25665
T.Y.B.M.M.	Rs. 25080
F.Y.B.M.S.	Rs.29553
S.Y.B.M.S.	Rs. 22640
T.Y.B.M.S.	Rs. 24175
F.Y.B.Sc. (IT)	Rs.38771
S.Y.B.Sc. (IT)	Rs. 34270
T.Y.B.Sc. (IT)	Rs. 38315

4. COLLEGE ADMISSION PROCESS

Table 4.4

Class	Fees (approx.)	Course Feature
F.Y.B.A.	Rs. 5075	(Without Statistics)
F.Y.B.A.	Rs. 5875	(With Statistics)
F.Y.B.Sc.	Rs. 6650	
S.Y.B.A.	Rs. 4455	(Without Statistics)
S.Y.B.A.	Rs. 5255	(With Statistics)
S.Y.B.Sc.	Rs. 5635	
T.Y.B.A.	Rs. 5545	(Without Statistics)
T.Y.B.A.	Rs. 6345	(With Statistics / Psychology)
T.Y.B.Sc.	Rs. 6505	
T.Y.B.Sc.	Rs. 7355	(With Computer Prog / Science)
F.Y.B.Com.	Rs. 5075	
S.Y.B.Com.	Rs. 4455	
T.Y.B.Com.	Rs. 5545	
F.Y.B.Voc.- T	Rs. 5875	
S.Y.B.Voc.- T	Rs. 5255	
T.Y.B.Voc.- T	Rs. 6345	
F.Y.B.Voc.- SD	Rs. 6650	
S.Y.B.Voc.- SD	Rs. 5635	
T.Y.B.Voc.- SD	Rs. 7355	

4.4.2. For Fees for PG Courses refer: page 82 (M.Sc. – Botany, Geology, Life Science, Microbiology); 96 (M.A. - AICA); 100 (M.Sc. Biotechnology) & 104 (M.A. – Public Policy).

4.5. FEE CONCESSION FOR BC STUDENTS:

4.5.1. Under the Govt. of India Scholarship or Govt. of Maharashtra Freeship schemes for BC students (SC / ST / DT / NT / OBC / SBC), certain Scholarships / Freeships are provided to the students who have the certificate issued by the Maharashtra Government.

4.5.2. Annual Family Income (AFI) Eligibility conditions for Scholarship:

4.5.2.1. SC students: AFI < Rs. 2 lakh p.a.

4.5.2.2. SC students: AFI > Rs. 2 lakh p.a.

4.5.2.3. VJ / NT / SBC / OBC students refer:

G.R.Kr.EBC-2014/Pr.Kr.96/Shikshan – dt 20/08/2016

4.5.3. NT / VJ / SBC / ST and OBC categories students will have to submit the Non-Creamy-Layer Certificate for such fee concessions.

4.5.4. Candidates with necessary documents who qualify for the aforementioned Scholarship / Freeship are required to pay, along with the Exam Fees, a nominal fee of Rs. 445 (for FY & SY) and Rs. 795 (for TY) for admission. They are exempted from all other fees.

4. COLLEGE ADMISSION PROCESS

4.6. ADDITIONAL INFORMATION ON SCHOLARSHIPS, FREESHIPS & AWARDS

4.6.1. Deserving / Eligible students are encouraged to take advantage of the financial aid in terms of Scholarships / Freeships as shown below:

- 4.6.1.1. Government of India Scholarships / Freeships for SC students
- 4.6.1.2. Government of India Scholarships / Freeships for OBC students
- 4.6.1.3. Government of India Scholarships / Freeships for VJ / NT students
- 4.6.1.4. Government of India Scholarships / Freeships for SBC students
- 4.6.1.5. Government of India Scholarships / Freeships for ST students
- 4.6.1.6. Government of India Minority Scholarship
- 4.6.1.7. Open Merit scholarship for Junior and Senior College
- 4.6.1.8. PTC Freeship
- 4.6.1.9. STC Freeship
- 4.6.1.10. EBC Freeship
- 4.6.1.11. Ex-Servicemen Freeship
- 4.6.1.12. PG Merit Scholarship / Freeship
- 4.6.1.13. *Rajashri Shahu Maharaj* Scholarship
- 4.6.1.14. University Financial Assistance
- 4.6.1.15. Other State Scholarship / Freeship
- 4.6.1.16. College Graded Scholarship
- 4.6.1.17. Students' Beneficiary Fund (provided by the College)
- 4.6.1.18. Students of the Year Awards (offered by the College)

4.6.2. Students are also advised to check **www.scholarships.gov.in** for the scholarships listed below:

- 4.6.2.1. Post-Matric Scholarship Schemes for Minorities
- 4.6.2.2. Post-Matric Scholarship Schemes for SC Students (U.T. only)
- 4.6.2.3. Maulana Azad National Fellowship for Minority Students
- 4.6.2.4. Post-Matric Scholarship for Persons with Disabilities
- 4.6.2.5. Scholarships for Top Class Education for Students with Disabilities
- 4.6.2.6. Central Sector Scheme of Scholarships for College and University Students
- 4.6.2.7. PG Indira Gandhi Scholarship for Single Girl Child.

4.6.2.8. Students belonging to SC / SBC / OBC / VJ / NT are required to fill up the online form on **<http://mahaeschol.maharashtra.gov.in>**, in order to avail the fee concession.

4.6.2.9. Students who apply through these portals do not get any fee concessions while taking admission. They have to directly apply for the benefit. The awardees get the financial benefits deposited directly into their personal bank accounts.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.1. BACKGROUND OF COLLEGE AUTONOMY:

5.1.1. The Indian higher education has mainly been under the affiliating system, wherein all colleges are linked to a University which prescribes its syllabus and organizes, controls and oversees the evaluation system. However, with a view to improve the quality of higher education, the Government of India, through the UGC, has recommended the delinking of academically well-established colleges from the affiliating system with a view to promote academic excellence. Hence, the emergence of an autonomous college, which is mandated to:

5.1.1.1. Determine its own course of study and syllabi.

5.1.1.2. Prescribe rules for admission in consonance with the Reservation Policy of the State Government.

5.1.1.3. Evolve methods of assessing students' performance, conduct examinations and declare the examination results along with the corresponding marksheets.

5.1.1.4. Use modern tools of educational technology to achieve higher standards, incentivize creativity and promote best practices for the benefits of society at large.

5.1.2. Recognizing the academic excellence of St Xavier's College, Mumbai, the UGC, State Government and University of Mumbai, have conferred on it the status of an academically Autonomous College from June 2010. Although St Xavier's College, Mumbai, is academically autonomous, the Graduation Degree will be conferred by University of Mumbai.

5.2. ASSESSMENT

5.2.1. The College conducts three assessments for all theory and practical courses in each semester, in the following manner:

5.2.1.1. 2 Continuous Internal Assessments (CIA I and CIA II) for 40 % of the total marks per course.

5.2.1.2. 1 End Semester Examination (ESE) for 60 % of the total marks of the said course.

5.2.2. Theory: Continuous Internal Assessment (CIA):

5.2.2.1. Usually 2 CIAs are held during a semester per course:

5.2.2.1.1. 15 and 25 marks respectively in the 1st Semester only

5.2.2.1.2. 20 marks per CIA in the remaining Semesters.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

- 5.2.2.1.3. It is possible that a course (in consultation with the Principal) may club the two CIAs into one (40 marks). In this case the lecturer concerned has to give to the Principal the breakup of continuous marking scheme.
- 5.2.2.1.4. It is also possible that the 20 marks of CIA II could be broken down into assignments running throughout the concerned Semester (in consultation with the Principal).
- 5.2.2.1.5. The clubbing of CIAs and the breakup of CIA II marks does not apply to Semester I.
- 5.2.2.2. There will be no retests for the CIAs. Any student who misses either CIA I or CIA II or both can acquire the 40% required to pass the course through the 60-mark ESE.
- 5.2.2.3. **Special CIA Clause:** The Principal will request the concerned Department(s) to hold a Special CIA Test (of one or more courses) for a student, within the same semester, under the following circumstances:
 - 5.2.2.3.1. If the Principal allows a student to represent the College at or to participate in some event (academic / cultural / sports) and this causes the student to miss a CIA Test (of one or more courses) (Note: The concerned event could be either a couple of weeks prior to or during the CIA period).
 - 5.2.2.3.2. If, just prior to or during a CIA, a student is stricken by a serious illness and the presented medical papers have been verified by the College. (Note: The medical papers and the Parent's note would have to be presented to the College within two days of the sickness, for this clause to hold).
 - 5.2.2.3.3. If just prior to or during the CIA a bereavement (of an immediate family member) occurs. (Note: In this case the Death Certificate of the departed and the Parent's note will have to be given to the College within 2 days of returning to College, for this clause to hold).
 - 5.2.2.3.4. For the same student, the Principal will exercise this discretionary power for only one of the two CIAs of a semester.
- 5.2.2.4. If a student fails to score 40 % in the overall total of that paper, such a student will have to appear for the Additional 100 marks Examination (in the subsequent semester) and forego all the CIA marks earned in the on-going semester in that course.

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5.2.3. Theory: End Semester Examination (ESE):

- 5.2.3.1. The ESE is for a maximum of 60 marks of 2 hours duration.
- 5.2.3.2. There will be bar coding (for TYs) and masking (for FYs and SYs) of the answer sheets prior to assessment.
- 5.2.3.3. For the F.Y / S.Y. courses there will be a Single Evaluation with Moderation for all courses as shown below:
 - 5.2.3.3.1. The assessed papers of the top 4 scores of the course from each division;
 - 5.2.3.3.2. 20% of the rest of the assessed papers on a random basis.
- 5.2.3.4. If a moderator finds some problems with the assessment of a paper, the option to increase the number of papers moderated could be exercised in consultation with the Principal.
- 5.2.3.5. If 30% or more of the moderated papers assessed by a particular examiner of a Course have a change of more than 15% of total marks assigned to the paper, a blind moderation will be required by a second moderator. If the change is upheld, all the answer papers of that group will have to be re-evaluated blind by the second moderator. The re-evaluated marks will be the final score awarded.
- 5.2.3.6. At the Third Year, there will be a **Double-Blind Evaluation** by the teacher of the Course and an external examiner. The average of the two scores will be the marks awarded. If in 30 % or more of the total papers evaluated per Course there is a marking discrepancy between the two evaluations of more than 15% of the total marks assigned to that Course, a third blind evaluation will be required. The average of the internal and final evaluated marks will be the ultimate score awarded.

5.2.4. Practicals:

- 5.2.4.1. The Practical component per Course is for 50 marks, of which Journal is for 5 marks and the ESE is for 45 marks or CIA for 15 marks and ESE for 30 marks.
- 5.2.4.2. Science subjects have a Practical component per course as:
 - 5.2.4.2.1. FYBSc (except Mathematics) (2 courses / semester)
 - 5.2.4.2.2. SYBSc (except Mathematics) (3 courses / semester)
 - 5.2.4.2.3. TYBSc (including Mathematics) (4 courses / semester)

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.2.4.3. For Mathematics in:

5.2.4.3.1. FYBSc there are no Practicals.

5.2.4.3.2. SYBSc the Practical component is for Courses 3.03 and 4.03

5.2.4.3.3. TYBSc there is a Practical component in all the Courses.

5.2.4.4. In Statistics for Arts:

5.2.4.4.1. FYBA (1 course / semester)

5.2.4.4.2. SYBA (2 courses / semester)

5.2.4.4.3. TYBA (3 courses / semester)

5.2.4.5. In Psychology (Courses: A.PSY.5.05 and A.PSY.6.05 - TYBA) there is a 100 marks Practical Course per sem. The breakup of the 100 marks is: Journal 20; *viva-voce* 20 and ESE 60.

5.2.4.6. All practical journals have to be signed by the Faculty-in-Charge (FIC) at each of these Practicals. The HoD along with the FIC will certify these Journals. No marks will be given for attendance at practicals, but the journal will be certified only against the completion of 75% attendance at the Practicals.

5.2.4.6.1. A student whose Journal is not certified in a Course will be given ZERO marks for the Journal in that Course.

5.2.4.6.2. The Journal Marks will be carried forward if a student fails or is absent for the corresponding practical of the Course.

5.2.4.7. The ESE Practical Examination (45 marks) of any Course need not be held only at the end of that semester; it could be held (in consultation with the Principal) through the semester. In such a case, the Department is expected to ultimately submit to the Examination Department the Consolidated Marks (per Course).

5.2.4.8. The Practical ESE marks per Course in the subject would be recorded and maintained by the Department and submitted at the end of the Semester to the Examination Department.

5.2.4.9. NO Additional ESE for Practicals will be held within the ongoing semester, unless permitted by the Principal.

5.2.4.10. If, for the Practicals, a student is absent or fails to get 40% of the total practical marks (i.e., 40/100 or 60/150 or 50/200) then an Additional Practical ESE will be held when the concerned Practical Examination is held for the next batch of students in the subsequent academic year(s). However, for Mathematics and Statistics, the Additional Exams will be held in the subsequent semester.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

- 5.2.4.11. A student will have to appear for the Practicals of all the Courses of the subject that he / she has chosen.
- 5.2.4.12. If a TYBSc / TYBA student fails in or is absent for one or more of the Practicals in Semester V, he / she will be allowed to appear for the Additional Examination in Semester VI of the concerned academic year.
- 5.2.4.13. If a TYBSc / TYBA student fails in or is absent for the Practicals in Semester VI, he / she will have to appear for these practicals in the subsequent Semester V of the following academic year.
- 5.2.4.14. The Practical marks per Course in the subject (i.e., CIA marks from those Departments who hold CIA for Practicals and ESE) would be recorded & maintained by the Dept. and submitted at the end of the semester to the Examination Department.

5.3. PASSING NORMS:

- 5.3.1. **To Pass a Theory Course** a student is required to obtain a minimum of 40% of the total marks allotted to that Course, which includes: CIA I, CIA II and the ESE.
 - 5.3.1.1. If a student fails to secure the required minimum 40 % of the total marks or was absent at one or more of the three assessments per semester, that student will have to re-appear for the Additional 3-hours Examination for 100 marks at the end of the subsequent semester.
 - 5.3.1.2. Unless permitted by the Principal, no additional CIA will be held.
 - 5.3.1.3. There will only be an Additional Examination (3 hours, 100 - marks) one semester later, with 40% as the passing marks.
 - 5.3.1.4. Only the marks secured by a student at the Additional 100 - marks paper will be the marks ultimately awarded.
- 5.3.2. **To Pass a Practical Course** a student is required to secure a minimum of 40% of the total marks allotted for the said Course.
 - 5.3.2.1. If a student appears for an Additional Practical Examination, the Practical Marks obtained earlier are annulled.
 - 5.3.2.2. The marks obtained at the Additional Practical Examination will be the marks ultimately awarded.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.4. GRACING NORMS:

- 5.4.1. **Grace marks for passing:** Upto a maximum 1% of the Grand Total per sem. can be added to any Course(s) to fulfill the passing norms.
- 5.4.2. **Grace marks for Award of Class:** Upto 1% will be added to the Grand Total to obtain a 1st Class or 2nd Class provided that the student has not obtained Grace Marks for passing in any Course (Note: this applies only to the final Consolidated Marksheet).
- 5.4.3. A student will be entitled for 10 Grace Marks, which will be added to his / her Even Semester Marksheet in the academic year when he / she represented the College in sports, NCC or cultural activities and were among the winners (1st, 2nd or Runners-up) or have reached the quarter finals of any competition held by the University of Mumbai.
- 5.4.4. The students who have passed in all subjects are still be eligible for the Grace Marks as indicated in 5.4.3. In this case these Grace Marks will be distributed over 3 subjects so that the benefit is reflected in such a student's Grade Point Average.
- 5.4.5. There are no Grace Marks awarded for the Additional Examination.

5.5. RESULTS

- 5.5.1. **A 4-Point Grade System** is adopted – it involves calculations for a Semester Grade Point Average (SGPA) and the final Cumulative Grade Point Average (CGPA).
- 5.5.2. Marksheets are issued per Semester & per Additional Examination.
- 5.5.3. Those students who do not register for the Additional Examination within the stipulated period will not be permitted to appear for the concerned examination(s).
- 5.5.4. Those students who fail in Courses adding up to 12 credits or less, across both semesters in an academic year, will be 'Allowed to Keep Terms' (ATKT) and appear for the Additional Examination(s) in the subsequent Semester.
- 5.5.5. Those students who fail in Courses adding up to more than 12 credits across both semesters in an academic year will be declared failed in that academic year.
- 5.5.6. Students who have not cleared Semester I or II or III or IV will not be allowed to appear for the Semester VI examination.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

- 5.5.7.** The Semester VI results of any student will not be declared until that student has cleared all the Courses from Semesters I to V.
- 5.5.8.** A student who is not satisfied with the evaluation of his / her paper in any Course, can apply (by the date notified on the Examination Notice Board), for a photo-copy and / or a re-evaluation of the answer paper.
- 5.5.8.1.** If the re-evaluation reveals a (+ / -) 15% or greater difference, an average of the first evaluation and of the re-evaluation will be the final score awarded.
- 5.5.8.2.** If the re-evaluation reveals a less than (+ / -) 15% then the original marks will be retained.
- 5.5.9.** Error(s) in the marksheet (i.e., change in name, marks, SGPA, CGPA) have to be brought to the notice of the General Office via the Principal / Vice-Principal within 30 days of the distribution of the marksheets. No changes in the marksheet will be entertained after the lapse of these 30 days.

5.6. ATTENDANCE

- 5.6.1.** The College expects 100% attendance at all lectures / practicals per chosen Course. As there are legitimate reasons why 100% attendance is not possible, a minimum of 75% attendance is made mandatory (*refer: Ordinance 119 vide University's Circular No. UG/502 of 1999*).
- 5.6.2.** A student with less than 75% attendance in a Course will not be allowed to appear for the ESE in that Course.
- 5.6.3.** A condonation up to 50% of lectures / practicals per Course could be made at the discretion of the Principal, in the following cases:
- 5.6.3.1.** Serious illness authenticated by a Doctor's Certificate and Medical Records & submitted within 2 days of resuming college.
- 5.6.3.2.** Other serious reasons, with validating documents (acceptable to the Principal) & submitted within 2 days of resuming college.
- 5.6.3.3.** No condonation is possible if a course's attendance, for whatever reason(s), is below 50% of the said course's lectures / practicals.
- 5.6.4.** For students who are sent by the Principal to represent the College, the total attendance will be reduced by number of days spent representing College. However, such students will have to login at least 75 % attendance of the lessened total.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

- 5.6.5.** Unless unavoidable, students are not allowed to miss lectures, practicals, CIAs or ESE without the prior permission of the Principal. Absence without prior permission will make students liable to disciplinary action, including denial of Terms.
- 5.6.6.** Absence from any Test / Exam must have documentary justification which must be presented, to the concerned Vice-Principal within two days of returning to College:
- 5.6.6.1.** In case of illness, a Medical Certificate and Medical Records must be produced.
 - 5.6.6.2.** In case of bereavement, the Death Certificate will have to be submitted.
 - 5.6.6.3.** No documents will be accepted after the two days.
- 5.6.7.** The Leave Application / Medical Papers must be accompanied by:
- 5.6.7.1.** A covering letter from the Parent or Guardian of the student.
 - 5.6.7.2.** The duly filled College Absence Record Form (which is available in the Photocopy Centre of the College).
- 5.6.8.** Serious illness or other circumstances are valid reasons for absence from lectures, practicals and exams. However, if the College is not provided with sufficient evidence of academic participation by the concerned student, the College may not grant such a student terms for the concerned Course(s) in that Semester. Such students would have to repeat the concerned Course in the next academic year.
- 5.6.9.** Attendance Grades (AG) (as shown in Table 5.1) for each course will be displayed in the semester Marksheets.

Table 5.1

Attendance Range (%) per Course	Grades
100 to 95	A+
< 95 to 90	A
<90 to 85	B+
<85 to 80	B
<80 to 75	C
< 75	TNG
Debarred Students who pass the Additional Exams	D

Note: TNG = Terms Not Granted (Debarred for ESE in that Course)

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.6.10. The AG for those students appearing for the Additional 100 marks Examinations and were not debarred for the ESE of that Course, will be the same as that secured during the said semester.

5.6.11. The AG 'D' will be given to students who were debarred and have passed the Additional Examination of the said Course.

5.6.12. Students, who have been debarred twice within the 1st four semesters, will not be re-admitted in the subsequent academic year.

5.7. RULES FOR EXTRA-CURRICULAR CREDIT (ECC) ACTIVITIES

5.7.1. Two mandatory (Non-Academic) ECC will be required to be earned by a student to obtain a Degree.

5.7.2. Each student has to log-in a minimum of 60 hours of EC activities over the 3-year of UG studies in the following manner: 20 hours in FY; 30 hours in SY and 10 hours in Semester V.

5.7.2.1. If, by Semester VI, a student fails to earn these mandatory hours as stipulated in 5.7.2., he / she will have to do 10 additional monitored SIP hours in Semester VI.

5.7.3. The students' EC progress, in terms of hours & quality of participation is monitored and recorded by the EC Committee (ECCom), under the supervision of the EC Faculty-in-Charge. The ECC Grade awarded will be either 'A' or 'A+'.

5.7.4. The following activities are eligible for EC credits:

5.7.4.1. Representing College at ECCom. approved competitions / NCC

5.7.4.2. Engaging in the co- & extra-curricular activities of the College Associations / Departments (These activities have to be certified by the Association's Faculty-in-Charge or HoD).

5.7.4.3. Being a member of the College Magazine Committee or Students' Council or any approved College Student Body.

5.7.4.4. Involving in Malhar/Paradigm/Jan-Fest as organizer / volunteer.

5.7.4.5. Enrolling in activities organized by the Student Council, SSL, AICUF, I.M.G. and other such bodies approved by College.

5.7.4.6. Participating in Sports, certified by the College Sports Director.

5.7.4.7. Involving in the International programmes of the College.

5.7.4.8. Providing on campus services, through the XRCVC, students with disabilities on campus.

5.7.5. Students are advised to check the College website for the ECC data submission procedure.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.8. SOCIAL INVOLVEMENT PROGRAMME (SIP)

- 5.8.1.** Two mandatory (Non-Academic) SIP Credits will be required to be earned by each student to obtain a degree.
- 5.8.2.** These credits have to be completed over semesters I or II by working with an NGO assigned by the SIP Department.
- 5.8.3.** The SIP Credits is based on 50 hours of activity as shown below:
 - 5.8.3.1.** 45 hours of actual social activity with the assigned NGO. This service with the assigned NGO will be monitored by the SIP Department of the College.
 - 5.8.3.2.** 5 hours of service conducted by the Departments of the College. This service must be discipline-centric and so monitored by the concerned Department. These records will have to be submitted to the SIP Department by the last week of February of the academic year.

5.9. INTERNSHIPS / FIELDWORK EXPERIENCE CREDIT:

- 5.9.1.** Internships / Fieldwork experiences are encouraged by the College so that students gain practical experience in their sphere of study.
- 5.9.2.** For this activity to be awarded the two Non-Mandatory Credits on the Consolidated Marksheet, the following protocol should be followed:
 - 5.9.2.1.** It must be undertaken only during the breaks between Semesters IV & V or Semesters V & VI.
 - 5.9.2.2.** Minimum of 60 hours of experience, and only 6 hours per day.
 - 5.9.2.3.** It has to be first approved by the Department's HoD through which the student would graduate (Single / Double Major).
- 5.9.3.** The concerned Dept. would have to monitor this activity as under:
 - 5.9.3.1.** The HoD, on behalf of the student, would issue a request letter to the organization in which this activity will be undertaken.
 - 5.9.3.2.** The Dept. would collect from the student the certification given to him / her by the said organization, post the internship.
 - 5.9.3.3.** The Department would then conduct a viva to verify the quality of the tasks undertaken by the student in the said organization.
 - 5.9.3.4.** On certifying that the activity is acceptable, the Dept. would then submit a report to the Examination Dept., not later than the end of February of the that student's Semester VI.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.10. TRANSFER OF CREDITS

5.10.1. Transfer of Credits from Other Institutions

- 5.10.1.1. The College will accept the transfer of credits for one semester from another institution within India (limited to A Grade Colleges or otherwise of repute) or from a University of repute abroad.
- 5.10.1.2. The student will be expected to earn as many credits to complete the semester as demanded by the host institution.
- 5.10.1.3. The College will transfer the number of credits that it normally has for the semester missed, notwithstanding the number of credits that the host institution grants.
- 5.10.1.4. Students can go to:
 - 5.10.1.4.1. An Indian institution only during Semester III or IV.
 - 5.10.1.4.2. A foreign institution (whose academic year begins in August / September), only during Semester IV.
- 5.10.1.5. Only students with a minimum CGPA of 3.0 and a minimum attendance average of 75% in the first 3 semesters would be permitted to avail of this facility.
- 5.10.1.6. To encourage a choice based credit system, these students will be allowed to choose any academic courses at the host institution in addition to at least **two** courses (in the semester pattern) in the subject that he / she is going to major in (or a minimum of **one each** for a double major).
 - 5.10.1.6.1. It is therefore necessary that the student gets a prior clearance regarding the type of mandatory courses required, from the college Head(s) of Department(s) in which he / she hopes to major in.
 - 5.10.1.6.2. The onus of responsibility to cover up any such requirements will rest on the student. The Department can conduct an evaluation of the Course-work done by the student in the other academic institution, prior to accepting the said Courses into the academic programme of the College.

5.10.2. Transfer of Credits to the Honours Programme *(For 2017-18 TYs only)*

- 5.10.2.1. Students doing short term academic courses in India or abroad can apply to count them as Inter-Disciplinary Transfer Credits for the Honours Programme.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.10.2.2. The C.I.P. can assist in determining whether one or two credits can be given for a foreign programme.

5.10.2.3. A Department can offer an Honours Credit for the faculty-guided work done within ambit of the subject, either within College or in some other institutions during the breaks between semesters.

5.11. PARENTS' COLLABORATION

5.11.1. Parents are invited to make inquiries about their child's attendance and performance either:

5.11.1.1. At the General Office or the concerned Department(s).

5.11.1.2. Through the college website: **www.xaviers.edu**. (Click on 'Parent Login', current Class serves as Username and the current Roll No. as Password).

5.11.2. If a student takes ill suddenly during college hours, preliminary first aid will be administered by the College. However, it is advisable that the Parent / Guardian come personally to the College to take their child / ward home or for further medical treatment / advice.

5.11.3. In case a student suffers from a chronic medical condition (either physical / mental), self-disclosure (with supporting medical documents) by the parents would help the College in administering the appropriate medical assistance, in case of an emergency.

5.11.3.1. Parents are advised to promptly bring such medical details to the attention of the Teacher-Mentor / concerned Vice-Principal.

5.11.3.2. Confidentiality, of both the student as well as the nature of the illness, is assured by the College.

5.11.4. A student suffering from a contagious illness should not come to college (for lectures / tests / exams), as it puts other students at risk.

5.11.4.1. A medical letter will have to be submitted by the Parents / Guardian to the Principal reporting the illness so that the absence of the student is noted.

5.11.4.2. Such a student will be allowed to return to college if and only if a 'Fitness Certificate' issued by a Medical Practitioner is submitted to the Principal.

5. ACADEMIC GUIDELINES UNDER AUTONOMY

5.11.4.3. Serious action will be taken against any student who flouts Rules 5.11.4.1 and 5.11.4.2.

5.11.5. The College will attempt to notify Parents of debarred students via postal mail and email prior to the commencement of the examinations.

5.11.6. Parents, of debarred students, can discuss this matter with the concerned Vice-Principal or write a letter to the Principal.

5.12. ADDENDUM

5.12.1. Wherever an issue has not been covered by these Autonomy Rules of the College, the Rules and Statutes of the University of Mumbai would apply, as long as the latter does not go against the spirit of the College Autonomy arrangements.

6. UNDERGRADUATE COURSE CONTENT (AIDED)

6.1. BACHELOR OF ARTS

A student for the B.A. degree examination will be required to offer 40 courses, and the break-up of these courses are as shown in Table 6.1.

Table 6.1

Mandatory Requirements	No. of Courses
3 Core Subjects (including 4 courses of an Applied Nature, related to the Core Subjects)	30
Language Group (English & an Indian or Foreign language)	4
Special Course Group	4
General Applied Component	2

6.1.1. FIRST YEAR

Table 6.2

Course Requirements	No. of Courses
Special Courses	2
Communication Skills in English	2
Languages (other than English): Literature in a Modern Indian Language, or a Classical or a Modern Foreign Language	2
Courses from the Social Sciences Group OR	6
Social Science Group + Languages Group OR	4 + 2
Social Science Group + Languages Group	2 + 4

- 6.1.1.1.** Change of subjects will be allowed till a week after College begins subject to availability of seats. However, subjects (compulsory / optional), which do not have the minimum enrolment required by Government / University, will not be offered.
- 6.1.1.2.** Students are expected to choose any three subjects (one from each Group), in order of preference, **for the first two years.**
- 6.1.1.3.** **Optional Subjects:** Any one subject from each of the 3 groups as given in Table 6.3 can be chosen:

6. UNDERGRADUATE COURSE CONTENT (AIDED)

Table 6.3

Group A	Group B	Group C
Economics (A) *	Ancient Indian Culture *	History *
Political Science *	English *	Economics (B) *
Psychology *	Sociology (A) *	Statistics **
Sociology (B) *	Commerce **	Anthropology **
		French ***
		Hindi ***

Note:

- Economics (A) or (B) and Sociology (A) or (B) only represent divisions in that subject, in the First & Second Year, and can be selected in only one group.
- Interpretation of indicators in Table 6.3

Key	Nature of Majors at Third Year	No. of Courses
*	Single or Double Majors at Third Year	12 or 6 in each
**	Only Double Majors at Third Year	6 in each
***	No Majors at Third Year	Only 2 (FY) & 4 (SY)

6.1.2. The choice of major/s will be decided only at the end of Semester IV, by the Heads of Department/s of the concerned subject/s, based entirely on merit (total of concerned subjects' marks across the preceding 4 semesters) and the availability of seats.

6.1.3. Syllabi per Semester

SEMESTER – I F.Y.B.A.

Code	Course Title	L/W	Credits
A.SPC.1.01	Special Course: Environmental Studies	3	3
A.EES.1.01	Critical Reading Thinking & Writing: English Prose	3 + 1	3
A.FRC.1.01	French Compulsory Basic	4	3
A.HIC.1.01	Hindi Language Skills	4	3
A.LIB.1.01	Intro to Library Science - I <i>Only for Students with Disabilities (SWD)</i>	4	3
A.AIC.1.01	Cultural History And Archaeology Of Ancient India From Early Times up till c. A.D 320	4	4
A.ANT.1.01	Introduction To Anthropology - I	4	4
A.COM.1.01	Organization of Commerce & Industry	4	4
A.ECO.1.01	Microeconomics - Demand And Production Theories	4	4

6. UNDERGRADUATE COURSE CONTENT (AIDED)

A.ENG.1.01	The Elements of Fiction	4	4
A.FRA.1.01	Le conte comme un genre litteraire	4	4
A.HIS.1.01	World History from the Renaissance to c. 1870	4	4
A.HIA.1.01	Introduction To Hindi Literature (Short Stories)	4	4
A.POL.1.01	Introduction to Politics	4	4
A.PSY.1.01	Introduction To Psychology - I	4	4
A.SOC.1.01	Introduction To Sociology - I	4	4
A.STA.1.01	Descriptive Statistics (A)	3	3
A.STA.1.PR	Statistics Practicals	3	1

SEMESTER – II F.Y.B.A.

Code	Course Title	L/W	Credits
A.SPC.2.01	Special Course: Giving Voice to Values	3	3
A.EES.2.01	Critical Reading, Thinking And Writing: English Literature	3 + 1	3
A.FRC.2.01	French Compulsory Advanced	4	3
A.HIC.2.01	Critical Reading And Thinking: Hindi	4	3
A.LIB.2.01	Intro to Library Science - I <i>Only for Students with Disabilities (SWD)</i>	4	3
A.AIC.2.01	Elements Of Archaeology In India	4	4
A.ANT.2.01	Introduction To Anthropology - II	4	4
A.COM.2.01	Forms of Business Organizations	4	4
A.ECO.2.01	Microeconomics - Pricing Theories	4	4
A.ENG.2.01	The Elements of Drama	4	4
A.FRA.2.01	17 th Century Theater	4	4
A.HIS.2.01	World History from the Industrial Revolution to World War II	4	4
A.HIA.2.01	Introduction To Hindi Literature (Novels)	4	4
A.POL.2.01	Political Theory	4	4
A.PSY.2.01	Introduction To Psychology - II	4	4
A.SOC.2.01	Introduction To Sociology –II	4	4
A.STA.2.01	Statistical Methods (A)	3	3
A.STA.2.PR	Statistics Practicals	3	1

SEMESTER – III S.Y.B.A.

Code	Course Title	L/W	Credits
A.SPC.3.01	Special Course : Human Rights	3	3
A.AIC.3.01	Cultural History and Archaeology of India in Ancient Deccan & Early Medieval Period	3	3
A.AIC.3.02	Elements of Museology in Ancient India	3	3
A.ANT.3.01	Ethnography: Themes And Issues I	3	3
A.ANT.3.02	Anthropology Of Religion	3	3
A.COM.3.01	Principles of Management – I	3	3
A.COM.3.02	Business Accounts & Finance - I	3	3
A.ECO.3.01	Macro Economics – I	3	3
A.ECO.3.02	Introduction to Econometrics – I	3	3
A.ENG.3.01	The Elements of Poetry	3	3
A.ENG.3.02	Pre- and Post-Independence Indian Writing in English	3	3
A.FRA.3.01	Introduction to Poetry	3	3

6. UNDERGRADUATE COURSE CONTENT (AIDED)

A.FRA.3.02	Translation, Essay, Précis Writing	3	3
A.HIA.3.01	Introduction To Hindi Literature (Plays)	3	3
A.HIA.3.02	Mass Media And Communication (Radio And Advertising)	3	3
A.HIS.3.01	An Outline History of Early India – I (3500 BCE-200 BCE)	3	3
A.HIS.3.02	History of China and Japan (1900-1960)	3	3
A.POL.3.01	Indian Constitution- Theory and Practice	3	3
A.POL.3.02	Introduction to Public Administration	3	3
A.PSY.3.01	Social Psychology	3	3
A.PSY.3.02	Developmental Psychology	3	3
A.SOC.3.01	Sociology: Classical Theories	3	3
A.SOC.3.02	Indian Sociology	3	3
A.STA.3.01	Statistical Methods (A)	3	2
A.STA.3.02	Operations Research	3	2
A.STA.3.PR	Statistics Practicals	6	2
A.AC.3.01.n n = 1 to 9	Applied Components: 1. Direct and Indirect Taxation – I 2. Elementary Statistical Techniques - I 3. General Introduction to Law 4. Intro to Market Research (Concepts & Approaches) - I 5. Investment Analysis – I 6. Leisure Studies - I 7. Media Studies & Cinema 8. Psychology of Adjustment 9. Psychology of Gender	4	3

SEMESTER – IV S.Y.B.A.

Code	Course Title	L/W	Credits
A.SPC.4.01.n n = 1 to 9	Cross Faculty Courses:		
	1. The Art of Mathematics (Maths)	3	3
	2. Astronomy, Physics and its impact on the World (Physics)	3	3
	3. Chem. in Context: Applying Chem. to society (Chemistry)	3	3
	4. Descriptive Statistics (Statistics)	3	3
	5. Garden Art (Botany)	3	3
	6. Infectious Diseases : Staying Ahead (Microbiology)	3	3
	7. Nutrition and Reproductive Health (Life Science)	3	3
	8. Secret Lives of Animals (Zoology)	3	3
	9. Web Designing (Information Tech.)	3	3
A.AIC.4.01	Social Organization in Ancient India	3	3
A.AIC.4.02	Development of Heritage Management & Tourism In India	3	3
A.ANT.4.01	Ethnography: Themes And Issues - II	3	3
A.ANT.4.02	Cultural Studies	3	3
A.COM.4.01	Principles of Management – II	3	3
A.COM.4.02	Business Accounts and Finance - II	3	3
A.ECO.4.01	Macro Economics – II	3	3
A.ECO.4.02	Introduction to Econometrics – II	3	3
A.FRA.4.01	Introduction to 20th Century Theater & 20th Century Novel	3	3
A.FRA.4.02	Introduction To French Painting	3	3
A.HIA.4.01	Introduction To Hindi Literature (Poetry)	3	3

6. UNDERGRADUATE COURSE CONTENT (AIDED)

A.HIA.4.02	Mass Media And Communication (Television And Film)	3	3
A.HIS.4.01	An Outline History of Early India (200 BCE- 1200 CE) - II	3	3
A.HIS.4.02	Contemporary Issues in Indian Society and Politics	3	3
A.POL.4.01	Indian Government & Politics	3	3
A.POL.4.02	Public Administration in India	3	3
A.PSY.4.01	Social Psychology	3	3
A.PSY.4.02	Developmental Psychology	3	3
A.SOC.4.01	Sociology: Themes & Issues – I	3	3
A.SOC.4.02	Sociology: Themes & Issues – II	3	3
A.ENG.4.01	American Literature	3	3
A.ENG.4.02	Indian Writing in English 1980 to the Present	3	3
A.STA.4.01	Statistical Methods (B)	3	2
A.STA.4.02	Data Analysis	3	2
A.STA.4.PR	Statistics Practicals	6	2
A.AC.4.01.n n = 1 to 9	Applied Components: 1. Basics of Indian Laws 2. Direct and Indirect Taxation – II 3. Elementary Mathematical Technique 4. Intro to Market Research – (Concepts & Approaches) – II 5. Investment Analysis – II 6. Leisure Studies – II; 7. Media Studies & Cinema 8. Psychology of Adjustment 9. Psychology of Gender	4	3

SEMESTER – V T.Y.B.A.

Code	Course Title	L/W	Credits
A.AIC.5.01	Political Institutions in Ancient India	4	5
A.AIC.5.02	Evolution of Art & Architecture of Early India– I	4	5
A.AIC.5.03	Study of Protection, Conservation & Preservation of Indian Monuments	3	4
A.AIC.5.04	A Study of Culture, History of World Civilization	4	5
A.AIC.5.05	Brief Survey of Religio-Philosophical Traditions in India – I	4	5
A.AIC.5.06	Brief Survey of Ancient Indian Literary Tradition	3	4
A.ANT.5.01	Anthropology: Perspectives, Theories & Frameworks I	4	5
A.ANT.5.02	Anthropology of Development - I Option with Socio 5.08	4	5
A.ANT.5.03	Applied Anthropology - I (Applied Component)	3	4
A.COM.5.01	Introduction to Marketing – I	4	5
A.COM.5.02	Organizational Behaviour	4	5
A.COM.5.03	Entrepreneurship & Management of Small and Medium Enterprises – I	3	4
A.ECO.5.01	Advanced Microeconomics	4	5
A.ECO.5.02	Principles of Microeconomics	4	5
A.ECO.5.03	Growth & Development: Theoretical Analysis	4	5
A.ECO.5.04	Approaches to Growth & Development	4	5
A.ECO.5.05	Evolution of Economic Thought	3	4
A.ECO.5.06	International Economics: Theory & Policy	3	4
A.ECO.5.07	Statistical Techniques for Economics	4	5
A.ECO.5.08	Econometrics – I	4	5

6. UNDERGRADUATE COURSE CONTENT (AIDED)

A.ECO.5.09	Corporate Finance – I(Applied Component) OR	}	3	4
A.ECO.5.10	Indian Financial Systems And Institutions		3	4
A.ENG.5.01	Fiction from Richardson to Hardy		4	5
A.ENG.5.02	Modernism and 20C English Poetry		4	5
A.ENG.5.03	Literature and the Self in Modernist European Writing		3	4
A.ENG.5.04	English Poetry (1550-1750)		4	5
A.ENG.5.05	Literary Theory & Criticism		4	5
A.ENG.5.06	Narratives of Conflict : Ideology & Resolution		3	4
A.FRA.5.06	Introduction to Tourism & Hotel Industry (Applied Component)		3	4
A.HIS.5.01	History of India (c.1200 - 1707): Political, Administrative & Social aspects		4	5
A.HIS.5.02	History of Modern India (1750-1950)		4	5
A.HIS.5.03	Introduction to Museum Studies and Institutional Archives		3	4
A.HIS.5.04	History of the Marathas (Part 1 1600-1707)		4	5
A.HIS.5.05	World History (1945-2000) – I		4	5
A.HIS.5.06	Introduction to Cinema in 20th Century Mumbai		3	4
A.POL.5.01	Political Process in Maharashtra – Historical Background		4	5
A.POL.5.02	Western Political Thinkers		4	5
A.POL.5.03	Issues in Indian Polity		3	4
A.POL.5.04	American Political System- Constitutional Framework		4	5
A.POL.5.05	International Politics Major Developments		4	5
A.POL.5.06	Major Issues in Contemporary Politics - International Economic Issues		3	4
A.PSY.5.01	Psychometrics and Statistics		4	5
A.PSY.5.02	Abnormal Psychology		4	5
A.PSY.5.03	Industrial - Organizational Psychology		3	4
A.PSY.5.04	Cognitive Psychology		4	5
A.PSY.5.05	Psychology Practicals		6	5
A.PSY.5.06	Counseling Psychology		3	4
A.SOC.5.01	Modern Sociological Theories - I OR	}	4	5
A.SOC.5.02	Urban Sociology		4	5
A.SOC.5.03	Popular Culture OR	}	4	5
A.SOC.5.04	Sociology of Work and Management - I		4	5
A.SOC.5.05	Media, Culture & Society - I (Applied Component) OR	}	3	4
A.SOC.5.06	Gender Studies - I (Applied Component)		3	4
A.SOC.5.07	Research Methods in Sociology - I		4	5
A.SOC.5.08	Socio-Cultural Movements Option with Anthro 5.02		4	5
A.SOC.5.09	Sociology of Human Resource Dev - I (Applied Component)		3	4
A.STA.5.01	Probability & Sampling Distribution (A)		3	3
A.STA.5.02	Sampling Techniques		3	3
A.STA.5.03	Applied Statistics (A)		3	3
A.STA.5.PR	Statistics Practicals		9	5

SEMESTER – VI T.Y.B.A.

Code	Course Title	L/W	Credits
A.AIC.6.01	Economic Institutions in Ancient India	4	5
A.AIC.6.02	Evolution of Art & Architecture of India – II	4	5
A.AIC.6.03	Intro of Ethno-Archaeology & Ethno Zoo-Archaeology in India	3	4

6. UNDERGRADUATE COURSE CONTENT (AIDED)

A.AIC.6.04	Study of Protection, Conservation & Preservation of Antiquities	4	5
A.AIC.6.05	Brief Survey of Religio-Philosophical Thoughts in India – II	4	5
A.AIC.6.06	Brief Survey of Science & Technology in Ancient India	3	4
A.ANT.6.01	Anthropology: Perspectives, Theories & Frameworks– II	4	5
A.ANT.6.02	Anthropology of Development - II Option with Socio 6.08	4	5
A.ANT.6.03	Applied Anthropology - II (Applied Component)	3	4
A.COM.6.01	Introduction to Marketing – II	4	5
A.COM.6.02	Human Resource Management	4	5
A.COM.6.03	Cost Accumulation Accounting	3	4
A.ECO.6.01	Advanced Macroeconomics	4	5
A.ECO.6.02	Macroeconomics: Theory And Practice	4	5
A.ECO.6.03	Economic Development: Policy & Applications (1)	4	5
A.ECO.6.04	Economic Development: Policy & Applications (2)	4	5
A.ECO.6.05	An Introduction to Political Economy	3	4
A.ECO.6.06	International Finance: Theory & Policy	3	4
A.ECO.6.07	Mathematical Techniques for Economics	4	5
A.ECO.6.08	Econometrics - II	4	5
A.ECO.6.09	Corporate Finance – II	3	4
A.ECO.6.10	Indian Financial Markets	3	4
A.ENG.6.01	English Poetry 1750 – 1900	4	5
A.ENG.6.02	Twentieth Century Fiction and Drama	4	5
A.ENG.6.03	Tales of the City	3	4
A.ENG.6.04	English Drama from Marlowe to Sheridan	4	5
A.ENG.6.05	Approaches to Popular Culture	4	5
A.ENG.6.06	Introduction to Visual Culture	3	4
A.FRA.6.06	Civilization Francaise (Applied Component)	3	4
A.HIS.6.01	History of India (c.1200-1707): Political, Administrative, Economic & Cultural aspects	4	5
A.HIS.6.02	A History of India after Independence (1947-1984)	4	5
A.HIS.6.03	Urban Heritage of Mumbai.	3	4
A.HIS.6.04	History of the Marathas - II (1708-1818)	4	5
A.HIS.6.05	World History : 1945 – 2000 - II	4	5
A.HIS.6.06	Introduction to Travel and Tourism in India.	3	4
A.POL.6.01	Political Process in Maharashtra- Contemporary Issues	4	5
A.POL.6.02	Political Thinkers – Indian	4	5
A.POL.6.03	Issues in Indian Polity-Rights of Citizens of India	3	4
A.POL.6.04	American Government and Politics	4	5
A.POL.6.05	International Politics Major Issues	4	5
A.POL.6.06	Major Issues in Contemporary Politics - International Social Issues	3	4
A.PSY.6.01	Psychometrics and Statistics	4	5
A.PSY.6.02	Abnormal Psychology	4	5
A.PSY.6.03	Industrial - Organizational Psychology	3	4
A.PSY.6.04	Cognitive Psychology	4	5
A.PSY.6.05	Psychology Practicals	6	5
A.PSY.6.06	Counseling Psychology	3	4
A.SOC.6.01	Modern Sociological Theories - II OR	4	5
A.SOC.6.02	Sociology of the Life Course	4	5

6. UNDERGRADUATE COURSE CONTENT (AIDED)

A.SOC.6.03	Sociology of Food	OR	}	4	5
A.SOC.6.04	Sociology of Work & Management - II			4	5
A.SOC.6.05	Media, Culture & Society - II (Applied Component)	OR		3	4
A.SOC.6.06	Gender Studies - II (Applied Component)			3	4
A.SOC.6.07	Research Methods in Sociology - II			4	5
A.SOC.6.08	Subaltern Studies	Option with Anthropology 6.02		4	5
A.SOC.6.09	Sociology of Human Resource Development - II (Applied Component)			3	4
A.STA.6.01	Probability & Sampling Distributions (B)			3	3
A.STA.6.02	Analysis of Variance & Design of Experiments			3	3
A.STA.6.03	Applied Statistics (B)			3	3
A.STA.6.PR	Statistics Practicals			9	5

6.1.4. Summary of Arts Courses

Note: One Credit consists of 30 hours of contact and self-study.

F.Y.B.A. PER SEMESTER							
Sub	CSK	Lang	Sp Sub	Sub 1	Sub 2	Sub 3	Total
L / W	3 + 1	4	3	4	4	4	23
Credits	3	3	3	4	4	4	21

S.Y.B.A. PER SEMESTER									
Sub	AC	SPC	Sub 1-1	Sub 1-2	Sub 2-1	Sub 2-2	Sub 3-1	Sub 3-2	Total
L / W	4	3	3	3	3	3	3	3	25
Credits	3	24							

T.Y.B.A. PER SEMESTER							
Sub	C-1	C - 2	C - 3	C - 4	AC 1	AC 2	Total
L / W	4	4	4	4	3	3	22
Credits	5	5	5	5	4	4	28

6. UNDERGRADUATE COURSE CONTENT (AIDED)

6.2. BACHELOR OF SCIENCE

Table 6.4

SN	F.Y.B.Sc.	S.Y.B.Sc.	T.Y.B.Sc.
1	(LS +C + P)	(LS +C)	LS or (BC + LS) or C
		or (P + C)	or P or C
2	(LS +C + G)	(C + LS)	LS or (BC + LS) or C
		or (C + G)	or C or G
3	(LS +C + B)	(LS + C)	LS or (BC + LS) or C
		or (B + C)	(B + BC) or C
4	(MB + C +P)	(MB + C)	(BC + MB) or C
		or (P + C)	C or P
5	(MB + C + Z)	(MB + C)	(BC + MB) or C
		or (C + Z)	(BC + Z) or C
6	(B + C + Z)	(C + B)	(B + BC) or C
		or (C + Z)	(BC + Z) or C
		or (B + Z)	(B + Z)
7	(C+ P+ MT)	(P + C)	C or P
		or (P + MT)	MT or P
8	(P + C + G)	(C + G)	C or G
		or (C + P)	C or P
9	(P + MT + G)	(G + P)	G or P
		or (P + MT)	MT or P
10	(P + MT + S)	(P + MT)	MT or P
		or (MT + S)	MT or S
11	(E + MT + S)	(MT + S)	MT or S

KEY : Botany = B, Biochemistry = BC, Chemistry = C, Economics = E, Geology = G, Life Science = LS, Mathematics = MT, Microbiology = MB, Physics = P, Statistics = S, Zoology = Z

6.2.1. F.Y.B.Sc.: A student shall offer any one of the course combinations available in the FYBSc, with three Subjects and two Special Courses. Only students who have Biology as a subject in Std. XII may opt for combinations 1 to 6 (refer Table 6.4, FYBSc). Change of subjects will be allowed till a week after College begins, subject to availability of seats. Only students who have Mathematics as a subject at HSC or other qualifying exam may opt for combinations with Mathematics, Statistics or Physics.

6.2.2. S.Y.B.Sc.: The choice of subjects will be approved only at the end of the Semester II by the Heads of concerned departments

6. UNDERGRADUATE COURSE CONTENT (AIDED)

based entirely on merit (total of concerned subject marks across the preceding 2 semesters) and the availability of seats.

6.2.3. T.Y.B.Sc.: The subjects currently offered at the TYBSc are listed in Table 6.4:

- 6.2.3.1. Single majors:** Physics, Chemistry, Maths, Statistics, Life Sciences and Geology.
- 6.2.3.2. Double majors:** Botany, Biochemistry, Life Science, Microbiology & Zoology, provided that the subject has been offered at the SYBSc level.
- 6.2.3.3.** The choice of major subject/s will be approved only at the end of the Semester IV by the Heads of Departments of concerned subjects based entirely on merit (total of concerned subject marks across the preceding 4 semesters) and the availability of seats.

6.2.4. Syllabi per Semester

SEMESTER – I F.Y.B.Sc.

Code	Course Title	L/W	Credits
S.SPC.1.01	Special Course: Environmental Studies	3	3
S.BOT.1.01	Plant Diversity – I	3	2
S.BOT.1.02	Angiosperms-I	3	2
S.BOT.1.PR	Botany Practicals – I	6	2
S.CHE.1.01	Concepts of Physical and Analytical Chemistry - I	3	2
S.CHE.1.02	Fundamentals of Inorganic & Organic Chemistry - I	3	2
S.CHE.1.PR	Chemistry Practicals-I	6	2
S.ECO.1.01	Micro Economics – I	4	3
S.ECO.1.02	Macro Economics – I	4	3
S.GEO.1.01	Introduction to Mineralogy, Crystallography & Stratigraphy	3	2
S.GEO.1.02	Introduction to Earth System, Cartography & Structural Geology	3	2
S.GEO.1.PR	Geology Practicals – I	6	2
S.LSC.1.01	Fundamentals of Biochemistry	3	2
S.LSC.1.02	Genetics And Evolution	3	2
S.LSC.1.PR	Life Science Practicals – I	6	2
S.MAT.1.01	Calculus - I	3 + 1	3
S.MAT.1.02	Algebra	3 + 1	3
S.MIC.1.01	Microbial Cell Structure & Function	3	2
S.MIC.1.02	Elements of Microbial Nutrition, Growth & Control	3	2
S.MIC.1.PR	Microbiology Practicals - I	6	2
S.PHY.1.01	Mechanics – I	3	2
S.PHY.1.02	Waves and Thermodynamics	3	2
S.PHY.1.PR	Physics Practicals - I	6	2
S.STA.1.01	Descriptive Statistics (A)	3	2

6. UNDERGRADUATE COURSE CONTENT (AIDED)

S.STA.1.02	Statistical Methods (A)	3	2
S.STA.1.PR	Statistics Practicals	6	2
S.ZOO.1.01	Invertebrate Systematics And Biomolecules	3	2
S.ZOO.1.02	Genetics and Evolution	3	2
S.ZOO.1.PR	Zoology Practicals – I	6	2

SEMESTER – II F.Y.B.Sc.

Code	Course Title	L/W	Credits
S.SPC.2.01	Special Course: Giving Voice to Values	3	3
S.BOT.2.01	Plant Physiology and Biochemistry-I	3	2
S.BOT.2.02	Cytology, Genetics and Ecology	3	2
S.BOT.2.PR	Botany Practicals – II	6	2
S.CHE.2.01	Concepts of Physical & Analytical Chemistry - II	3	2
S.CHE.2.02	Fundamentals of Inorganic & Organic Chemistry - II	3	2
S.CHE.2.PR	Chemistry Practicals - II	6	2
S.ECO.2.01	Micro Economics – II	4	3
S.ECO.2.02	Macro Economics – II	4	3
S.GEO.2.01	Intro: Petrology, Geotectonics & Economic Geology	3	2
S.GEO.2.02	Intro: Physical Geology, Stratigraphy & Plaeontology	3	2
S.GEO.2.PR	Geology Practicals - II	6	2
S.LSC.2.01	Cell Biology	3	2
S.LSC.2.02	Fundamentals Of Microbiology	3	2
S.LSC.2.PR	Life Science Practicals - II	6	2
S.MAT.2.01	Calculus - II	3 + 1	3
S.MAT.2.02	Linear Algebra	3 + 1	3
S.MIC.2.01	Microbial Diversity, Taxonomy & Significance	3	2
S.MIC.2.02	Basics of Metabolism & Genetics	3	2
S.MIC.2.PR	Microbiology Practicals – II	6	2
S.PHY.2.01	Electricity and Magnetism	3	2
S.PHY.2.02	Optics	3	2
S.PHY.2.PR	Physics Practicals - II	6	2
S.STA.2.01	Descriptive Statistics (B)	3	2
S.STA.2.02	Statistical Methods (B)	3	2
S.STA.2.PR	Statistics Practicals	6	2
S.ZOO.2.01	Vertebrate Systematics and Ecology	3	2
S.ZOO.2.02	Biotechniques And Comparative Physiology	3	2
S.ZOO.2.PR	Zoology Practicals - II	6	2

SEMESTER – III S.Y.B.Sc.

Code	Course Title	L/W	Credits
S.SPC.3.01	Special Course: Human Rights	3	3
S.SCS.3.01	Scientific Communication Skills	1	1
S.BOT.3.01	Plant Diversity - II	3	2
S.BOT.3.02	Plant Physiology and Biochemistry-II	3	2
S.BOT.3.03	Anatomy, Embryology and Palynology	3	2
S.BOT.3.PR	Botany Practicals – III	9	3
S.CHE.3.01	Physical and Analytical Chemistry – I	3	2

6. UNDERGRADUATE COURSE CONTENT (AIDED)

S.CHE.3.02	Inorganic and Industrial Chemistry - I	3	2
S.CHE.3.03	Organic and Industrial Chemistry - I	3	2
S.CHE.3.PR	Chemistry Practicals - III	9	3
S.GEO.3.01	Stratigraphy and Invertebrate Palaeontology	3	2
S.GEO.3.02	Crystallography	3	2
S.GEO.3.03	Geomorphology & Cartographic Analysis	3	2
S.GEO.3.PR	Geology Practicals - III	9	3
S.LSC.3.01	Comparative Physiology- I	3	2
S.LSC.3.02	Enzymes and Metabolic Pathways	3	2
S.LSC.3.03	Microbes & Human Health	3	2
S.LSC.3.PR	Life Science Practicals - III	9	3
S.MAT.3.01	Calculus – III	3+1	3
S.MAT.3.02	Algebra – III	3+1	3
S.MAT.3.03	Finite Mathematics	3	2
S.MAT.3.PR	Mathematics Practicals - III	3	1
S.MIC.3.01	Cell Biology, Microbial Virulence & Innate Immunity	3	2
S.MIC.3.02	Introduction to Microbial Metabolism And Biostatistics	3	2
S.MIC.3.03	Basics of Genetics & Bioinformatics	3	2
S.MIC.3.PR	Microbiology Practicals – III	9	3
S.PHY.3.01	Waves and Quantum Optics	3	2
S.PHY.3.02	Mathematical Physics	3	2
S.PHY.3.03	Electronics	3	2
S.PHY.3.PR	Physics Practicals - III	9	3
S.STA.3.01	Probability & Sampling Distributions (A)	3	2
S.STA.3.02	Sampling Techniques	3	2
S.STA.3.03	Operations Research	3	2
S.STA.3.PR	Statistics Practicals	9	3
S.ZOO.3.01	Ethology and Parasitology	3	2
S.ZOO.3.02	Biostatistics and Evolution	3	2
S.ZOO.3.03	Advanced Genetics and Bioinformatics	3	2
S.ZOO.3.PR	Zoology Practicals - III	9	3

SEMESTER – IV S.Y.B.Sc.

Code	Course Title	L/W	Credits
S.SPC.4.01.n n = 1 to 10	Cross Faculty Course:		
	1. An Introduction to Gandhian Studies (History)	3	3
	2. Fundamentals of the Indian Constitution (Political Science)	3	3
	3. Indian Culture the Philosophy (AIC)	3	3
	4. International Economics (Economics)	3	3
	5. Management Accounting & Invest. Portfolio Management (BMS)	3	3
	6. Psychology of Relationships (Psychology)	3	3
	7. Representing the Nation through the News Media (BMM)	3	3
	8. Science of Culture (Sociology & Anthropology)	3	3
	9. Science, Technology & Social Change: Some Issues & Challenges (Sociology & Anthropology)	3	3
10. The World is a Family (English)	3	3	
S.SCS.4.01	Scientific Communication Skills	1	1

6. UNDERGRADUATE COURSE CONTENT (AIDED)

S.BOT.4.01	Plant Diversity - III	3	2
S.BOT.4.02	Angiosperms – II	3	2
S.BOT.4.03	Medicinal Botany and Tools Of Analysis	3	2
S.BOT.4.PR	Botany Practicals – IV	9	3
S.CHE.4.01	Physical and Analytical Chemistry – II	3	2
S.CHE.4.02	Inorganic and Industrial Chemistry – II	3	2
S.CHE.4.03	Organic and Industrial Chemistry – II	3	2
S.CHE.4.PR	Chemistry Practicals - IV	9	3
S.GEO.4.01	Economic mineral deposits	3	2
S.GEO.4.02	Optical and Systematic Mineralogy	3	2
S.GEO.4.03	Field Geology & Hydrogeology	3	2
S.GEO.4.PR	Geology Practicals - IV	9	3
S.LSC.4.01	Comparative Physiology- II	3	2
S.LSC.4.02	Molecular Biology	3	2
S.LSC.4.03	Biostatistics and Population Genetics	3	2
S.LSC.4.PR	Life Science Practicals - IV	9	3
S.MAT.4.01	Calculus – IV	3+1	3
S.MAT.4.02	Algebra – IV	3+1	3
S.MAT.4.03	Differential Equations	3	2
S.MAT.4.PR	Mathematics Practicals - IV	3	1
S.MIC.4.01	Virology and Immunology	3	2
S.MIC.4.02	Environmental Microbiology	3	2
S.MIC.4.03	Food Microbiology & Bioprocess Technology	3	2
S.MIC.4.PR	Microbiology Practicals – IV	9	3
S.PHY.4.01	Thermodynamics	3	2
S.PHY.4.02	Quantum Mechanics	3	2
S.PHY.4.03	Acoustics	3	2
S.PHY.4.PR	Physics Practicals - IV	9	3
S.STA.4.01	Probability & Sampling Distributions (B)	3	2
S.STA.4.02	Analysis of Variance & Design of Experiments	3	2
S.STA.4.03	Industrial Statistics	3	2
S.STA.4.PR	Statistics Practicals	9	3
S.ZOO.4.01	Developmental Biology and Information Flow	3	2
S.ZOO.4.02	Cell Biology	3	2
S.ZOO.4.03	Biochemistry and Applied Zoology	3	2
S.ZOO.4.PR	Zoology Practicals - IV	9	3

SEMESTER – V T.Y.B.Sc.

Code	Course Title	L/W	Credits
S.BOT.5.01	Cytogenetics, Molecular Biology & Biotechnology	4	4
S.BOT.5.02	Angiosperms – III	4	4
S.BOT.5.PR	Botany Practicals – V	8	4
S.CHE.5.01	Spectroscopy, Molecular & Nuclear Dynamics	4	4
S.CHE.5.02	Chemical Bonding & Co-Ordination Chemistry	4	4
S.CHE.5.03	Stereochemistry & Natural Products	4	4
S.CHE.5.04	General Analytical Chemistry	4	4
S.CHE.5.PR	Chemistry Practicals - V	16	8
S.CHE.5.AC	Neuroscience	4	4

6. UNDERGRADUATE COURSE CONTENT (AIDED)

S.CHE.5.AC.PR	Applied Component Practicals	4	2
S.GEO.5.01	Precambrian Geology of India	4	4
S.GEO.5.02	Igneous Petrology	4	4
S.GEO.5.03	Structural Geology	4	4
S.GEO.5.04	Metamorphic Petrology	4	4
S.GEO.5.PR	Geology Practicals - V	16	8
S.GEO.5.AC	Remote Sensing and Image Interpretation	2	4
S.GEO.5.AC.PR	Applied Component Practicals	4	2
S.LSC.5.01	Genetics	4	4
S.LSC.5.02	Developmental Biology	4	4
S.LSC.5.03	Industrial Biotechnology & Nanotechnology	4	4
S.LSC.5.04	Ecology & Biodiversity	4	4
S.LSC.5.PR	Life Science Practicals - V	16	8
S.BCH.5.01	Cells and Biomolecules	4	4
S.BCH.5.02	Nutrition & Metabolic Pathways	4	4
S.BCH.5.PR	Biochemistry Practicals	8	4
S.LSC.5.AC	Environment & Environmental Pollution	4	4
S.LSC.5.AC.PR	Applied Component Practicals - V	4	2
S.MAT.5.01	Real Analysis and Multivariable Calculus	3	4
S.MAT.5.02	Algebra – I	3	4
S.MAT.5.03	Topology of Metric Spaces	3	4
S.MAT.5.04	Numerical Methods	3	4
S.MAT.5.PR	Mathematics Practicals - V	12	8
S.MAT.5.AC	Computer Programming & System Analysis	4	4
S.MAT.5.AC.PR	Computer Programming Practicals	4	2
S.MIC.5.01	Industrial Biotechnology & Genetics	4	4
S.MIC.5.02	Medical Microbiology & Immunology I	4	4
S.MIC.5.PR	Microbiology Practicals – V	8	4
S.PHY.5.01	Classical Mechanics	4	4
S.PHY.5.02	Mathematical Physics	4	4
S.PHY.5.03	Electronics	4	4
S.PHY.5.04	Electrodynamics	4	4
S.PHY.5.PR	Physics Practicals - V	16	8
S.PHY.5.AC	Digital Image Processing	4	4
S.PHY.5.AC.PR	Digital Image Processing Practicals	4	2
S.STA.5.01	Probability Theory	4	4
S.STA.5.02	Statistical Estimation	4	4
S.STA.5.03	Applied Statistics (IA)	4	4
S.STA.5.04	Applied Statistics (IIA)	4	4
S.STA.5.PR	Statistics Practicals	16	8
S.ZOO.5.01	Ontogeny of Vertebrates, Behavioural Ecology & Conservation Biology	4	4
S.ZOO.5.02	Physiological Adaptations	4	4
S.ZOO.5.PR	Zoology Practicals - V	8	4
S.ZOO.5.AC	Economic Entomology- I	4	4
S.ZOO.5.AC.PR	Economic Entomology Practicals	4	2

6. UNDERGRADUATE COURSE CONTENT (AIDED)

SEMESTER – VI T.Y.B.Sc.

Code	Course Title	L/W	Credits
S.BOT.6.01	Plant Physiology & Biochemistry - III	4	4
S.BOT.6.02	Ecology and Environmental Botany - I	4	4
S.BOT.6.PR	Botany Practicals – VI	8	4
S.CHE.6.01	General Physical Chemistry	4	4
S.CHE.6.02	Solid State, Solution & Medicinal Chemistry	4	4
S.CHE.6.03	Spectometric Identification & Synthetic Chemistry	4	4
S.CHE.6.04	Instrumental Methods of Analysis	4	4
S.CHE.6.PR	Chemistry Practicals - VI	16	8
S.CHE.6.AC	Drugs & Color Chemistry	4	4
S.CHE.6.AC.PR	Applied Component Practicals	4	2
S.GEO.6.01	Phanerozoic Geology of India	4	4
S.GEO.6.02	Sedimentary Petrology	4	4
S.GEO.6.03	Engineering Geology	4	4
S.GEO.6.04	Photogrammetry, Aerial Photo Interpretation & GIS	4	4
S.GEO.6.PR	Geology Practicals - VI	16	8
S.GEO.6.AC	Gemmology	4	4
S.GEO.6.AC.PR	Applied Component Practicals	4	2
S.LSC.6.01	Immunology	4	4
S.LSC.6.02	Neurobiology	4	4
S.LSC.6.03	Recombinant DNA Technology & Bioinformatics	4	4
S.LSC.6.04	Sustainable Development & Carbon Management	4	4
S.LSC.6.PR	Life Science Practicals - VI	16	8
S.BCH.6.01	Biophysical and Bioanalytical Chemistry	4	4
S.BCH.6.02	Metabolism, Clinical Biochemistry & Pharmacology	4	4
S.BCH.6.PR	Biochemistry Practicals	8	4
S.LSC.6.AC	Environment Sustainability and Legislation	4	4
S.LSC.6.AC.PR	Environmental Science Practicals	4	2
S.MAT.6.01	Real Analysis & Multivariable Calculus	3	4
S.MAT.6.02	Algebra – II	3	4
S.MAT.6.03	Analysis	3	4
S.MAT.6.04	Complex Variables	3	4
S.MAT.6.PR	Mathematics Practicals - VI	12	8
S.MAT.6.AC	Computer Programming & System Analysis	4	4
S.MAT.6.AC.PR	Computer Programming Practicals	4	2
S.MIC.6.01	Genetics, Molecular Biology & Bioinformatics	4	4
S.MIC.6.02	Medical Microbiology & Immunology-II	4	4
S.MIC.6.PR	Microbiology Practicals – VI	8	4
S.PHY.6.01	Statistical Physics	4	4
S.PHY.6.02	Atomic & Molecular Physics	4	4
S.PHY.6.03	Nuclear Physics	4	4
S.PHY.6.04	Solid State Physics	4	4
S.PHY.6.PR	Physics Practicals - VI	16	8
S.PHY.6.AC	Digital Image Processing	2	4
S.PHY.6.AC.PR	Digital Image Processing Practicals	4	2
S.STA.6.01	Probability Distributions & Stochastic Processes	4	4
S.STA.6.02	Statistical Inference	4	4

6. UNDERGRADUATE COURSE CONTENT (AIDED)

S.STA.6.03	Applied Statistics (IB)	4	4
S.STA.6.04	Applied Statistics (IIB)	4	4
S.STA.6.PR	Statistics Practicals	16	8
S.ZOO.6.01	Basics of Enzymes, Toxicology, Histology and Nanoscience	4	4
S.ZOO.6.02	Immunology & Recombinant DNA Technology	4	4
S.ZOO.6.PR	Zoology Practicals - VI	8	4
S.ZOO.6.AC	Economic Entomology – II	4	4
S.ZOO.6.AC.PR	Economic Entomology Practicals	4	2

6.2.5. Summary of Sciences Courses

Note: One Credit consists of 30 hours of contact and self-study.

F.Y.B.Sc. PER SEMESTER								
Subject	Theory			Practicals			Sp Sub	Total
	1	2	3	1	2	3		
L/W	6	6	6	6	6	6	3	39
Credits	4	4	4	2	2	2	3	21

S.Y.B.Sc. PER SEMESTER							
Subject	Theory		Practicals		Special Subject	Scientific Comm. Skills	Total
	1	2	1	2			
L / W	9	9	9	9	3	1	42
Credits	6	6	3	3	3	1	22

T.Y.B.Sc. PER SEMESTER					
	Theory		Practicals		Total
	Course	AC	Course	AC	
	1,2,3,4	1,2	1,2,3,4	1,2	
L / W	16	4	16	4	40
Credits	16	4	8	2	30

6. UNDERGRADUATE COURSE CONTENT (AIDED)

6.3. BACHELOR OF COMMERCE

6.3.1. Syllabi per Semester

SEMESTER – I F.Y.B.Com.

Code	Course Title	L/W	Credits
C.SPC.1.01	Special Course: Environmental Studies	3	3
C.COM.1.01	Fundamentals of Financial Accounting I	4	3
C. COM.1.02	Business Economics I	3	3
C. COM.1.03	Business Mathematics & Statistics I	5 + 1	3
C. COM.1.04	Commerce – I : Management - Functions and Challenges	3	3
C. COM.1.05	Communication Skills in English	4 + 1	3
C. COM.1.06	Commerce – II : Introduction to Business	3	3

SEMESTER – II F.Y.B.Com.

Code	Course Title	L/W	Credits
C.SPC.2.01	Special Course: Giving Voice to Values	3	3
C.COM.2.01	Fundamentals of Financial Accounting II	4	3
C. COM.2.02	Business Economics II	3	3
C. COM.2.03	Business Mathematics & Statistics II	5 + 1	3
C. COM.2.04	Commerce III : Marketing	3	3
C. COM.2.05	Business Communication	4 + 1	3
C. COM.2.06	Commerce IV : Service Sector	3	3

SEMESTER – III S.Y.B.Com

Code	Course Title	L/W	Credits
C.SPC.3.01	Special Course: Human Rights	3	3
C.COM.3.01	Financial Accounting - I	5	4
C. COM.3.02	Business Economics - III	3	3
C. COM.3.03	Commercial Laws - I	4	3
C. COM.3.04	Commerce - V: Human Resource Mgt	3	3
C. COM.3.05	Regulatory Aspect of Banking & Finance I	3	3
C. COM.3.06	Mass Communication (Theory & Practice) or Retail Marketing	3	3

6. UNDERGRADUATE COURSE CONTENT (AIDED)

SEMESTER – IV S.Y.B.Com.

Code	Course Title	L/W	Credits
C.SPC.4.01	Special Course: Science & Technology	3	3
C.COM.4.01	Financial Accounting – II	5	4
C.COM.4.02	Business Economics - IV	3	3
C.COM.4.03	Commercial Laws – II	4	3
C.COM.4.04	Commerce - VI: Business Finance & Capital Market	3	3
C.COM.4.05	Regulatory Aspect of Banking & Finance - II	3	3
C.COM.4.06	Mass Communication (Media Studies) / Advertising	3	3

SEMESTER – V T.Y.B.Com.

Code	Course Title	L/W	Credits
C.COM.5.01	Basic Corporate Accounts	5	6
C.COM.5.02	Basics & Fundamentals of Costing & Auditing	4	5
C.COM.5.03	Fundamentals of Corporate Finance - I	3	5
C.COM.5.04	Business Economics - V	3	4
C.COM.5.05	Commerce - VII: Production & Material Management	3	3
	Applied Component:		
C.COM.5.06	Export Marketing	3	3
C.COM.5.07	Direct Tax – Income Tax	3	4

SEMESTER – VI T.Y.B.Com.

Code	Course Title	L/W	Credits
C.COM.6.01	Advanced Corporate Accounts	5	6
C.COM.6.02	Advanced Auditing & Costing Accounting	4	5
C.COM.6.03	Fundamentals of Corporate Finance - II	3	5
C.COM.6.04	Business Economics - VI	3	4
C.COM.6.05	Commerce - VIII: Entrepreneurship	3	3
	Applied Component:		
C.COM.6.06	Corporate Secretarial Management & Governance	3	3
C.COM.6.07	Indirect Tax (MVAT & Service Tax)	3	4

6.3.2. Applied Components for SYBCom & TYBCom:

1. Mass Communication
2. Advertising
3. Export Marketing
4. Direct & Indirect Taxation
5. Corporate Secretarial Management and Governance

6. UNDERGRADUATE COURSE CONTENT (AIDED)

Summary of Commerce Courses

Note: One Credit consists of 30 hours of contact and self-study.

BACHELOR OF COMMERCE

F.Y.B.Com. PER SEMESTER								
Subject	1	2	3	4	5	6	7	Total
L / W	3	4	3	4 + 4	4	3 + 3	3	24
Credits	3	3	3	3	3	3	3	21

S.Y.B.Com. PER SEMESTER								
Subject	1	2	3	4	5	6	7	Total
L / W	3	3	4	4	4	4	2	24
Credits	3	3	4	4	3	3	2	22

T.Y.B.Com. PER SEMESTER								
Subject	1	2	3	4	5	6	7	Total
L / W	4	4	3	4	3	3	3	24
Credits	5	5	4	5	3	4	4	30

6. UNDERGRADUATE COURSE CONTENT (AIDED)

6.4. BACHELOR IN VOCATIONAL STUDIES (B.VOC.) {FUNDED BY THE UNIVERSITY GRANTS COMMISSION (UGC)}

- 6.4.1.** It has been a long felt necessity to align higher education with the emerging needs of the economy and incorporate the requirements of various industries. The University Grants Commission (UGC) has launched a scheme on skills development based on higher education leading to Bachelor of Vocational (B.Voc.) Degree with multiple exits such as Certificate / Diploma / Advanced Diploma and Degree. The B.Voc. Programme is focused on preparing graduates / Diploma-holders acquire necessary job market skills enabling them to gain appropriate employment or become entrepreneurs. In addition to the Degree from the University, the respective Sector Skill Councils give a certification with the NSQF levels 5, 6 and 7 respectively for the B.Voc. students.
- 6.4.2.** The College offers two Bachelor of Vocation Programmes in two streams: SOFTWARE DEVELOPMENT and TOURISM
- 6.4.3. B.Voc. (Software Development):** The I.T. Sector in India is growing and vocationally trained skilled workforce in very large numbers is required for automation of enterprises & companies. India is going to need software enabled people in almost all sectors, such as, Finance and Stock Exchange, Pharmaceutical, Media and entertainment, corporate business to name a few. This course is designed in such a way that at the end of three years students will get a B.Voc.: Software Development Degree and can seek jobs in the field of materials management in manufacturing industries in the purchase / stores / sales & marketing departments as well as data scientists and as programmes. However, at the end of first year with a Diploma they can seek jobs as Computer Assistants in Offices & Accounts Depts. If they continue through the Second Year they can leave with an advanced diploma and seek jobs in technical management, entertainment media and social industry.
- 6.4.4. B.Voc. (Tourism):** India's vast natural, historical and cultural diversity is poorly tapped by the tourism industry. According to one source, India's position stands at 41 internationally and 11 in the Asia-Pacific region. While the Government and other

6. UNDERGRADUATE COURSE CONTENT (AIDED)

agencies look into the infrastructural and other essentials for Tourism development we see lacunae in the availability of well-trained Tour guides, Managers, Operators to develop the vast potential for Tourism that India has to offer. Besides, the concept of Tourism and hospitality management has now widened to include Event Management for corporate groups, educational institutes etc. This service-based industry requires (besides cognitive, creative and core-competency skills in the practical and organizational aspects of the industry) crucial and well-developed interpersonal and communication skills.

6.4.5. Eligibility for admissions to the First Year B.Voc. courses in Software Development OR in Tourism: A candidate in order to be eligible for admission to the B.Voc. courses in Software Development and in Tourism shall have passed the Class XII from any stream, including the Examination conducted by the Maharashtra State Board of Higher Secondary Education or its equivalent examination or Diploma in any Engineering branch with two or three or four years duration after passing the Secondary School Certificate (S.S.C.) examination conducted by the Board of Technical Education, Maharashtra State or equivalent examination.

6.4.6. Seats Available: 50 Seats for Tourism
50 Seats for Software Development

6.4.7. Reservation of Seats: Refer Table 4.1, page 22

6.4.8. Selection Process: The College has introduced an ONLINE application system for the First Year B.Voc admissions. All candidates applying for admission to St. Xavier's College are expected to apply through the online application system on the homepage of the website www.xaviers.edu which will be activated in May, of the concerned academic year.

6.4.8.1. The last date for submission of online application forms for admission and dates for display of merit lists will be put up on the website www.xaviers.edu. The schedule for admissions will be announced by the University of Mumbai. Admissions are made only on the basis of the overall percentage of marks at the qualifying examination. The Grades awarded by some Boards are converted to percentages according to a formula provided

6. UNDERGRADUATE COURSE CONTENT (AIDED)

by their respective Boards or by the Association of Indian Universities, New Delhi for students coming from Foreign Boards.

- 6.4.8.2. The University of Mumbai has made it mandatory for all candidates seeking admission to the First Year courses in the Degree Colleges to fill in the “Pre-Admission Online Registration Form” on <http://mum.digitaluniversity.ac>
- 6.4.8.3. Dates for online registration will be announced by the University sometime in the last week of May 2016 - you will need to click on:- Pre Admission Online Registration.
- 6.4.8.4. Therefore, all candidates applying for admission to St. Xavier’s College for the First Year Courses i.e. B.A., B.Sc., B.Com., B.Sc. (IT), B.M.M., B.M.S. and B.Voc courses in Tourism and in Software Development are required to fill in the “Pre-Admission Online Registration Form” and submit a hard copy of the same to the College Office (dates for submission will be announced later).
- 6.4.8.5. At the time of admission the candidate must submit the **Class XII marksheet in original** and **two** attested copies of the same and **one** attested copy of other relevant documents as mentioned below:
1. Class XII Marksheet – (Original + 2 attested copies)
 2. Baptism Certificate (For Christians)
 3. Caste Certificate (for Reserved Category)
 4. Documentary Evidence regarding Special Category status (Refer Section 4.1.10., page 23)

6.4.9. Eligibility Certificate: Refer Section 4.3., page 24

6.4.10. Fees: Refer Table 4.4.,page 26

6. UNDERGRADUATE COURSE CONTENT (AIDED)

6.4.11. Syllabi per Semester (SOFTWARE DEVELOPMENT):

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – I					
F.Y.B.Voc. (Software Dev)	General Education Component	S.VS.1.01	Business Communication - I	3	3
		S.VS.1.02	French Language & Culture – I	3	3
		S.VS.1.03	Environment Studies	3	3
		S.VS.1.04	Office Automation Software	3	3
	Skill Component	S.VS.1.05	Computer Networking	3	3
		S.VS.1.06	Structured Programming using C++	3	3
		S.VS.1.07	Quantitative Techniques - I	3	3
		S.VS.1.08	Web Designing	3	3
		S.VS.1.PR1	Computer Networking & C++ Practicals	3 + 3	3 = (1.5+1.5)
		S.VS.1.PR2	Quantitative Techniques Tutorials & Web Designing Practicals	3 + 3	3 = (1.5+1.5)
Sub Total of Credits (12 + 18) = 30					
SEMESTER – II					
F.Y.B.Voc. (Software Dev)	General Education Component	S.VS.2.01	Business Communication – II	3	3
		S.VS.2.02	French Language & Culture – II	3	3
		S.VS.2.03	Giving Voice to Values	3	3
		S.VS.2.04	Elements of Digital Design	3	3
	Skill Component	S.VS.2.05	PHP and MySQL	3	3
		S.VS.2.06	Operating Systems	3	3
		S.VS.2.07	DBMS / SQL	3	3
		S.VS.2.08	Object Oriented Programming with JAVA	3	3
		S.VS.2.PR1	PHP & MySQL & Operating Systems Practicals	3 + 3	3 = (1.5+1.5)
		S.VS.2.PR2	DBMS / SQL & OOPS with Java Practicals	3 + 3	3 = (1.5+1.5)
Sub Total of Credits (12 + 18) = 30					

6. UNDERGRADUATE COURSE CONTENT (AIDED)

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – III					
S.Y.B.Voc. (Software Dev)	General Education Component	S.VS.3.01	Media and Society – I	3	3
		S.VS.3.02	Contemporary Social Issues – I	3	3
		S.VS.3.03	Introduction to Economics - I	3	3
		S.VS.3.04	Human Rights	3	3
	Skill Component	S.VS.3.05	Quantitative Techniques – II	3	3
		S.VS.3.06	Advance SQL with Oracle	3	3
		S.VS.3.07	Advanced Java	3	3
		S.VS.3.08	Open Source Platforms	3	3
		S.VS.3.PR1	Quantitative Techniques Tutorial & Advanced SQL with Oracle Practicals	3 + 3	3 = (1.5+1.5)
		S.VS.3.PR2	Advanced Java & Open Source Platforms Practicals	3 + 3	3 = (1.5+1.5)
Sub Total of Credits (12 + 18) = 30					
SEMESTER – IV					
S.Y.B.Voc. (Software Dev)	General Education Component	S.VS.4.01	Media and Society - II	3	3
		S.VS.4.02	Contemporary Social Issues - II	3	3
		S.VS.4.03	Introduction to Economics - II	3	3
		S.VS.4.04	Fundamentals of Accounts	3	3
	Skill Component	S.VS.4.05	C#	3	3
		S.VS.4.06	ASP. NET	3	3
		S.VS.4.07	Data Warehousing and Mining	3	3
		S.VS.4.08	Mobile App Development using Android - I	3	3
		S.VS.4.PR1	C# & ASP.NET Practicals	3 + 3	3 = (1.5+1.5)
		S.VS.4.PR2	Data Warehousing & Mobile App Development Practicals	3 + 3	3 = (1.5+1.5)
Sub Total of Credits (12 + 18) = 30					

6. UNDERGRADUATE COURSE CONTENT (AIDED)

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – V					
T.Y.B.Voc. (Software Dev)	General Education Component	S.VS.5.01	Popular Culture	4	4
		S.VS.5.02	Entrepreneurship - I	4	4
		S.VS.5.03	Applied Psychology	4	4
	Skill Component	S.VS.5.04	Mobile App Development using Android - II	4	4
		S.VS.5.05	Python	4	4
		S.VS.5.PR1	Mobile App Development & Python Practicals	4 + 4	4 = (2 + 2)
		S.VS.5.PROJ	Project - I	3 + (10)	6
Sub Total of Credits (12 + 18) = 30					
SEMESTER – VI					
T.Y.B.Voc. (Software Dev)	General Education Component	S.VS.6.01	Industrial Policy in India	4	4
		S.VS.6.02	Entrepreneurship - II	4	4
		S.VS.6.03	Business Ethics	4	4
	Skill Component	S.VS.6.04	ERP and SCM	4	4
		S.VS.6.05	Software Testing	4	4
		S.VS.6.PR1	Software Testing Tutorial & ERP Case Study	4	4
		S.VS.6.PROJ1	Project - II	2 + (8)	4
		S.VS.6.PROJ2	Compulsory Internship	6 Weeks	4
Sub Total of Credits (12 + 18) = 30					
GRAND TOTAL OF CREDITS (72 + 108) = 180 (as per UGC Guidelines for B.Voc., 6.5.3.)					

6. UNDERGRADUATE COURSE CONTENT (AIDED)

6.4.12. Syllabi per Semester (TOURISM):

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – I					
F.Y.B.Voc. (Tourism)	General Education Component	A.VT.1.01	Business Communication – I	3	3
		A.VT.1.02	French Language & Culture – I	3	3
		A.VT.1.03	Environment Studies	3	3
		A.VT.1.04	Office Automation Software	3	3
	Skill Component	A.VT.1.05	Principles of Travel & Tourism I	3	3
		A.VT.1.06	Intro. to Indian Hist. & Culture (North & East India)	3	3
		A.VT.1.07	Intro. to World Hist. & Cult. (Europe & America)	3	3
		A.VT.1.08	Web Designing	3	3
		A.VT.1.01.PR	Principles of Travel & Tourism – I Web Designing	3	3
		A.VT.1.02.PR	Intro. to World Hist. & Cult. (Eur & Amer) Intro. to Indian Hist. & Culture (N & E India)	3	3
Sub Total of Credits (12 + 18) = 30					

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – II					
F.Y.B.Voc. (Tourism)	General Education Component	A.VT.2.01	Business Communication – II	3	3
		A.VT.2.02	French Language & Culture - II	3	3
		A.VT.2.03	Giving Voice to Values	3	3
		A.VT.2.04	Elements of Digital Design	3	3
	Skill Component	A.VT.2.05	Principles of Travel and Tourism-II	3	3
		A.VT.2.06	Intro. to Indian Hist. & Cult. (Central, South and West India)	3	3
		A.VT.2.07	Intro. to World Hist. & Cult. (Asia, Africa & Australia)	3	3
		A.VT.2.08	Applied Geography	3	3
		A.VT.2.01.PR	Principles of Travel & Tourism – II Applied Geography	3	3
		A.VT.2.02.PR	Intro to World Hist. & Cult. (As, Af, & Aus) Intro to Indian Hist. & Cult. (C, S & W India)	3	3
Sub Total of Credits (12 + 18) = 30					

6. UNDERGRADUATE COURSE CONTENT (AIDED)

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – III					
S.Y.B.Voc. (Tourism)	General Education Component	A.VT.3.01	Media and Society – I	3	3
		A.VT.3.02	Contemporary Social Issues - I	3	3
		A.VT.3.03	Introduction to Economics - I	3	3
		A.VT.3.04	Human Rights	3	3
	Skill Component	A.VT.3.05	Intro to Tourism Marketing	3	3
		A.VT.3.06	Forms of Tourism	3	3
		A.VT.3.07	Domestic Tourism	3	3
		A.VT.3.08	Comm. Skills in French - I	3	3
		A.VT.3.01.PR	Intro to Tourism Marketing: Forms of Tourism	3	3
		A.VT.3.02.PR	Domestic Tourism: Comm. Skills in French - I	3	3
Sub Total of Credits (12 + 18) = 30					

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – IV					
S.Y.B.Voc. (Tourism)	General Education Component	A.VT.4.01	Media and Society - II	3	3
		A.VT.4.02	Contemporary Social Issues - II	3	3
		A.VT.4.03	Intro. to Economics - II	3	3
		A.VT.4.04	Fundamentals of Accounts	3	3
	Skill Component	A.VT.4.05	Sustainable Tourism	3	3
		A.VT.4.06	Basic Components of Tourism Industry	3	3
		A.VT.4.07	International Tourism	3	3
		A.VT.4.08	Comm. Skills in French - II	3	3
		A.VT.3.01.PR	Sustainable Tourism: Basic Components of Tourism Ind.	3	3
		A.VT.3.02.PR	International Tourism: Comm. Skills in French - II	3	3
Sub Total of Credits (12 + 18) = 30					

6. UNDERGRADUATE COURSE CONTENT (AIDED)

Class	Code	Course Title	L/W	No. of Credits	
SEMESTER – V					
T.Y.B.Voc. (Tourism)	General Education Component	A.VT.5.01	Popular Culture	4	4
		A.VT.5.02	Entrepreneurship - I	4	4
		A.VT.5.03	Applied Psychology	4	4
	Skill Component	A.VT.5.04	Tourism Operations Management	4	4 (+ 1: Project)
		A.VT.5.05	Basic Ticketing	4	4 (+ 1: Project)
		A.VT.5.06	Intro. to Event Planning and Management	4	4 (+ 1: Project)
Sub Total of Credits (12 + 15) = 27					

SEMESTER – VI					
T.Y.B.Voc. (Tourism)	General Education Component	A.VT.6.01	Industrial Policy in India	4	4
		A.VT.6.02	Entrepreneurship - II	4	4
		A.BVT6.03	Business Ethics	4	4
	Skill Component	A.VT.6.04	Itinerary Planning	4	2 (+ 1: Project)
		A.VT.6.05	Tourism & Allied Services	4	2 (+ 1: Project)
		A.VT.6.06	Project	4	2 (+ 1: Acad. Tour)
		A.VT.6.PROJ	Compulsory Internship	6 Weeks	12
Sub Total of Credits (12 + 21) = 33					
GRAND TOTAL OF CREDITS (72 + 108) = 180 (as per UGC Guidelines for B.Voc., 6.5.3.)					

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

7.1. BACHELOR OF MANAGEMENT STUDIES (B.M.S.)

7.1.1. Introduction: This course was introduced by the University of Mumbai in the year 1999-2000. It is a three-year degree course, with six semesters, managed by full-time as well as visiting faculty drawn from the Industrial and Service sectors.

7.1.2. Number of students: 60 students.

7.1.3. Eligibility: A candidate in order to be eligible for admission to the B.M.S. degree course shall have passed the 12th Std. Examination conducted by the Maharashtra State Board of Higher Secondary Education or its equivalent examination or Diploma in any Engineering branch with two or three or four years duration after passing the Secondary School Certificate (S.S.C.) examination conducted by the Board of Technical Education, Maharashtra State or equivalent examination.

7.1.4. Eligibility Certificate: Refer Section 4.3, page 24

7.1.5. Admission Criteria: For the BMS Course, unlike other courses, the students come from all 3 faculties (Arts, Science & Commerce) where the marking systems are very different. Hence an entrance test for this course will be conducted for admission purposes. Admissions would be on the basis of the Entrance Test (refer 4.1.2., page 21)

7.1.6. Minimum Percentage of Marks in Qualifying Exams:

7.1.6.1. Candidates belonging to the General Category, must secure at least 65% marks in aggregate in their Qualifying Exams.

7.1.6.2. Candidates belonging to the Christian Minority Community must secure at least 60% in the Qualifying Exams.

7.1.6.3. Candidates belonging to SC/ST reserved category must secure at least 55% marks in their Qualifying Exams.

7.1.7. Fees: Refer Table 4.3, p 25; Sections 4.5 (p 26) & 4.6 (p 27)

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

7.1.8. Syllabi per Semester

SEMESTER - I FYBMS

Code	Course Title	L/W	Credits
C.SPC.1.01	Special Course: Environmental Studies	3	3
C.MS.1.01	Principles of Management	4	3
C.MS.1.02	Introduction to Financial Accounts	4	3
C.MS.1.03	Business Law	4	3
C.MS.1.04	Business Mathematics	4	3
C.MS.1.05	Business Communication	4	3
C.MS.1.06	Computer Applications in Business	4	3
TOTAL		27	21

SEMESTER II FYBMS

Code	Course Title	L/W	Credits
C.SPC.2.01	Special Course: Giving Voice to Values	3	3
C.MS.2.01	Organizational Behavior	4	3
C.MS.2.02	Industrial Law	4	3
C.MS.2.03	Marketing Management	4	3
C.MS.2.04	Managerial Economics - I	4	3
C.MS.2.05	Business Statistics	4	3
C.MS. 2.06	Introduction to Cost Accounting	4	3
TOTAL		27	21

SEMESTER - III SYBMS

Code	Course Title	L/W	Credits
C.SPC.3.01	Special Course: Human Rights	3	3
C.MS.3.01	Human Resource Management	4	4
C.MS.3.02	Management Accounting	4	3
C.MS.3.03	Production and Materials Management	4	3
C.MS.3.04	Consumer Behaviour	4	4
C.MS.3.05	Managerial Economics II	4	3
C.MS.3.06	Direct and Indirect Taxes	4	4
TOTAL		27	24

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

SEMESTER - IV SYBMS

Code	Course Title	L/W	Credits
C.SPC.4.01.n n = 1 to 8	Cross Faculty Courses:	3	3
	1. Astronomy, Physics and its impact on the World (Physics)		
	2. Chem. in Context: Applying Chem. to society (Chemistry)		
	3. Descriptive Statistics (Statistics)		
	4. Garden Art (Botany)		
	5. Infectious Diseases: Staying Ahead (Microbiology)		
	6. Nutrition and Reproductive Health (Life Science)		
	7. Secret Lives of Animals (Zoology)		
	8. Web Designing (Information Tech.)		
C.MS.4.01	Research Methods in Business and MS EXCEL	4	4
C.MS.4.02	Financial Management	4	3
C.MS.4.03	Productivity & Quality Management	4	3
C.MS.4.04	Cooperatives & Rural Markets	4	4
C.MS.4.05	Business Environment	4	3
C.MS.4.06	Banking, Insurance & Capital Markets	4	4
TOTAL		27	24

SEMESTER - V TYBMS

Code	Course Title	L/W	Credits
C.BMS.5.01	Entrepreneurship & Management of Small & Medium Enterprises	4	5
C.MS.5.02	Service Sector Management	4	4
C.MS.5.03	Elements of Logistics and Supply Chain Mgt	4	4
C.MS.5.04	Indian Management Thoughts and Practices	4	4
C.MS.5.05	International Finance	4	4
C.MS.5.06	Elective I: Financial Resource Raising OR	4	4
C.MS.5.07	Elective II: International Business	4	4
C.MS.5.08	Management Research Project	-	3
TOTAL		24	28

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

SEMESTER - VI TYBMS

Code	Course Title	L/W	Credits
C.MS.6.01	Strategic Management	4	5
C.MS.6.02	Risk Management	4	5
C.MS.6.03	Operations Research	4	4
C.MS.6.04	Business Ethics & Corporate Social Responsibility	4	4
C.MS.6.05	E-Commerce	4	5
C.MS.6.06	Elective I: Investment Analysis & Portfolio Mgt or	4	5
C.MS.6.07	Elective II: Retail & Sales Management	4	5
TOTAL		24	28

7.1.9. Summary of Management Studies Courses

Note: One Credit consists of 30 hours of contact and self-study.

F.Y.B.M.S. PER SEMESTER								
Subjects	1	2	3	4	5	6	7	Total
L / W	3	4	4	4	4	4	4	27
Credits	3	3	3	3	3	3	3	21

S.Y.B.M.S. PER SEMESTER								
Subjects	1	2	3	4	5	6	7	Total
L / W	3	4	4	4	4	4	4	27
Credits	3	4	3	4	3	4	3	24

T.Y.B.M.S. PER SEMESTER								
Subjects	1	2	3	4	5	6	Total	
L / W	4	4	4	4	4	4	24	
Credits	5	5	4	4	5	5	28	

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

7.2. BACHELOR OF MASS MEDIA (B.M.M.)

7.2.1. Introduction: This Course initiates undergraduate students to the need to develop a strong foundation in the fundamental art subjects. The Course design helps students develop a critical and inquiry-based understanding of societal constructs, an individual's behaviour in consumer driven economies and media business management. Our alumni pursue post-graduate degrees / find job placements in Journalism, Marketing, Brand Management, Visual Arts & Design, Production-Direction-Cinematography, etc. Our graduates have also become Entrepreneurs in media related businesses.

7.2.2. Number of Students: 60 Students

7.2.3. Eligibility: A candidate in order to be eligible for admission to the B.M.M. degree course shall have passed the 12th Std. Examination conducted by the Maharashtra State Board of Higher Secondary Education or its equivalent examination or Diploma in any Engineering branch with two or three or four years duration after passing the Secondary School Certificate (S.S.C.) examination conducted by the Board of Technical Education, Maharashtra State or equivalent examination.

7.2.4. Eligibility Certificate: Refer Section 4.3, page 24

7.2.5. Admission Criteria: For the BMM Course, the students come from all 3 faculties (Arts, Science & Commerce) where the marking systems are very different. Hence an entrance test for this course will be conducted for admission purposes. Admissions would be on the basis of the Entrance Test (refer 4.1.2., page 21).

7.2.6. Minimum Percentage of Marks in Qualifying Exams:

7.2.6.1. Candidates belonging to the General Category, must secure at least 65% marks in aggregate in their Qualifying Exams.

7.2.6.2. Candidates belonging to the Christian Minority Community must secure at least 60% in the Qualifying Exams.

7.2.6.3. Candidates belonging to SC/ST reserved category must secure at least 55% marks in their Qualifying Exams.

7.2.7. Fees: Refer Table 4.3, p 25; Sections 4.5 (p 26) & 4.6 (p 27)

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

7.2.8. Syllabi per Semester

SEMESTER - I FYBMM

Code	Course Title	L/W	Credits
A.SPC.1.01	Special Course: Environmental Studies	3	3
A.MM.1.01	Effective Communication Skills – I	4	3
A.MM.1.02	Mass Communication and Society	4	3
A.MM.1.03	Introduction to Economics - I	4	3
A.MM.1.04	Introduction to Sociology	4	3
A.MM.1.05	Introduction to Literature	4	3
A.MM.1.06	Computer Graphics	4	3
TOTAL		27	21

SEMESTER - II FYBMM

Code	Course Title	L/W	Credits
A.SPC.2.01	Special Course: Giving Voice to Values	3	3
A.MM.2.01	Effective Communication & Translation Skills - II	4	3
A.MM.2.02	Introduction to Media Ethics	4	3
A.MM.2.03	Media Psychology	4	3
A.MM.2.04	History of Ideas	4	3
A.MM.2.05	Introduction to Economics – II	4	3
A.MM.2.06	Introduction to Radio and T.V.	4	3
TOTAL		27	21

SEMESTER - III SYBMM

Code	Course Title	L/W	Credits
A.SPC.3.01	Special Course: Human Rights	3	3
A.MM.3.01	Application of Economics Concepts	4	3
A.MM.3.02	Cultural Studies	4	4
A.MM.3.03	Introduction to Advertising Concepts	4	3
A.MM.3.04	Introduction to Management Environment	4	4
A.MM.3.05	Introduction to Journalism	4	3
A.MM.3.06	Introduction to Audio Visual Production	4	4
TOTAL		27	24

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

SEMESTER - IV SYBMM

Code	Course Title	L/W	Credits
C.SPC.4.01.n n = 1 to 8	Cross Faculty Courses:	3	3
	1. Astronomy, Physics and its impact on the World (Physics)		
	2. Chem. in Context: Applying Chem. to society (Chemistry)		
	3. Descriptive Statistics (Statistics)		
	4. Garden Art (Botany)		
	5. Infectious Diseases: Staying Ahead (Microbiology)		
	6. Nutrition and Reproductive Health (Life Science)		
	7. Secret Lives of Animals (Zoology)		
	8. Web Designing (Information Tech.)		
A.MM.4.01	Writing Skills for Media	4	3
A.MM.4.02	Introduction to Photography	4	4
A.MM.4.03	Theory of Media	4	3
A.MM.4.04	Mass Media Research	4	4
A.MM.4.05	Marketing Concepts	4	3
A.MM.4.06	Film Reading & Appreciation	4	4
TOTAL		27	24

SEMESTER - V TYBMM (ADVERTISING)

Code	Course Title	L/W	Credits
A.MM.5.01	Advertising for International Markets	4	5
A.MM.5.02	Media Law and Advertising Ethics	4	4
A.MM.5.03	Consumer Behaviour	4	5
A.MM.5.04	Introduction to Financial Markets	4	4
A.MM.5.05	Contemporary Issues	4	5
A.MM.5.06	Advertising Design	4	5
TOTAL		24	28

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

SEMESTER - V TYBMM (JOURNALISM)

Code	Course Title	L/W	Credits
A.MM.5.01	Introduction to Financial Markets	4	4
A.MM.5.02	Contemporary Issues	4	5
A.MM.5.03	Reporting	4	5
A.MM.5.04	Editing	4	5
A.MM.5.05	Feature and Opinion	4	5
A.MM.5.06	Journalism and Public Opinion	4	4
TOTAL		24	28

SEMESTER - VI TYBMM (ADVERTISING)

Code	Course Title	L/W	Credits
A.MM.6.01	Introduction to Entrepreneurship	4	5
A.MM.6.02	Brand Building	4	5
A.MM.6.03	Copywriting	4	5
A.MM.6.04	Public Relations	4	5
A.MM.6.05	International Relations	4	4
A.MM.6.06	Digital Marketing	4	4
TOTAL		24	28

SEMESTER - VI TYBMM (JOURNALISM)

Code	Course Title	L/W	Credits
A.MM.6.01	Introduction to Entrepreneurship	4	5
A.MM.6.04	Public Relations	4	5
A.MM.6.07	Press Laws and Ethics	4	4
A.MM.6.08	Broadcast Journalism	4	4
A.MM.6.09	Newspaper and Magazine Making	4	5
A.MM.6.10	Digital Media	4	5
TOTAL		24	28

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

7.2.9. Summary of Mass Media Courses

Note: One Credit consists of 30 hours of contact and self-study.

F.Y.B.M.M. PER SEMESTER								
Subjects	1	2	3	4	5	6	7	Total
L / W	3	4	4	4	4	4	4	27
Credits	3	3	3	3	3	3	3	21

S.Y.B.M.M. PER SEMESTER								
Subjects	1	2	3	4	5	6	7	Total
L / W	3	4	4	4	4	4	4	27
Credits	3	4	3	4	3	4	3	24

T.Y.B.M.M. PER SEMESTER							
Subjects	1	2	3	4	5	6	Total
L / W	4	4	4	4	4	4	24
Credits	5	4	5	5	4	5	28

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

7.3. BACHELOR IN SCIENCE (INFORMATION TECHNOLOGY) (B.Sc.- I.T.)

7.3.1. Introduction: St. Xavier's College began this course in the academic year 2007-2008. The B.Sc. IT program of Mumbai University is designed to provide basic inputs for a broad understanding of IT and its interfaces. The program takes the students beyond computer skills to Telecommunication systems and Networking to e-commerce, internet security and Enterprise Resource Planning (ERP). The course consists of theory and practicals together with tutorials, assignments, case studies, projects, seminars and field trips. In the Third Year (Semester V & VI) Electives are offered.

7.3.2. Number of Students: 60 Students

7.3.3. Eligibility: The eligibility criteria for admission to this course requires a pass percentage of not less than 45% in aggregate at the XII std. exam of the Maharashtra State Board of Secondary & Higher Secondary Education or its equivalent with MATHEMATICS as one of the subjects. (For reserved category candidates the requirement is 40% aggregate).

7.3.4. Eligibility Certificate: Refer Section 4.3, page 24

7.3.5. Fees: Refer Table 4.3, p 25; Sections 4.5 (p 26) & 4.6 (p 27)

7.3.6. Syllabi per Semester

SEMESTER - I FYBSC (IT)

Code	Course Title	L/W	Credits
S.SPC.1.01	Special Course: Environmental Studies	3	3
S.ITS.1.01	Professional Communication Skills	4	3
S. ITS.1.02	Applied Mathematics – I	4	3
S. ITS.1.03	Digital Electronics	4	3
S. ITS.1.04	The Art of Programming	4	3
S. ITS.1.05	Data Communication & Network Standards	4	3
S. ITS.1.PR	The Art of Programming & Digital Electronics	6	3
TOTAL		29	21

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

SEMESTER - II FYBSC (IT)

Code	Course Title	L/W	Credits
S.SPC.2.01	Special Course: Giving Voice to Values	3	3
S. ITS.2.01	Computer Graphics	4	3
S. ITS.2.02	Applied Mathematics – II	4	3
S. ITS.2.03	Microprocessors and Microcontrollers	4	3
S. ITS.2.04	Descriptive Statistics	4	3
S. ITS.2.05	C++ Programming	4	3
S. ITS.2.PR	Computer Graphics, Microprocessors & Microcontrollers and C++ Programming	6	3
TOTAL		29	21

SEMESTER - III SYBSC (IT)

Code	Course Title	L/W	Credits
S.SPC.3.01	Special Course: Human Rights	3	3
S.ITS.3.01	Logic & Discrete Mathematical Structures - LDMS	5	3
S. ITS.3.02	Web Designing & Programming	5	3
S. ITS.3.03	Advanced Structured Query Language (ASQL)	5	3
S. ITS.3.04	Object Oriented Programming with JAVA	5	3
S. ITS.3.05	Embedded Systems	5	3
S. ITS.3.PR	ASQL and Embedded System	6	3
S.ITS.3.PR	OOPS with JAVA and Web Designing	6	3
TOTAL		40	24

SEMESTER - IV SYBSC (IT)

Code	Course Title	L/W	Credits
S.SPC.4.01.n n = 1 to 10	Cross Faculty Course:		
	1.An Introduction to Gandhian Studies (History)	3	3
	2.Fundamentals of the Indian Constitution (Pol. Sci)		
	3.Indian Culture the Philosophy (AICA)		
	4.International Economics (Economics)		
	5.Mgt. Accounting & Invest. Portfolio Mgt. (BMS)		
	6.Psychology of Relationships (Psychology)		
	7.Representing the Nation through News Media (BMM)		
	8.Science of Culture (Sociology & Anthropology)		
	9. Science, Technology & Social Change: Some Issues & Challenges (Sociology & Anthropology)		
10.The World is a Family (English)			
S. ITS.4.01	Software Engineering	4	3
S. ITS.4.02	Modern Operating System	4	3
S. ITS.4.03	Mobile Application Development	4	3
S. ITS.4.04	Data Structure using JAVA	4	3

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

S. ITS.4.05	Statistical Techniques and Operation Research	4	3
S. ITS.4.PR	Modern Operating System and Mobile Application Development	6	3
S. ITS.4.PR	Data Structure using JAVA and Statistical Techniques	6	3
TOTAL		35	24

SEMESTER - V TYBSC (IT)

Code	Course Title	L/W	Credits
S.ITS.5.01	Network Security & Internet Technologies	4	4
S. ITS.5.02	C# with ASP.Net	4	4
S. ITS.5.03	Data Warehousing & Data Mining	4	4
S. ITS.5.04	E-Commerce and M-Commerce Technologies	4	4
S. ITS.5.05	Introduction to Artificial Intelligence	4	4
S. ITS.5.PR	Network Security and Data Warehousing	6	4
S. ITS.5.PR	C# & ASP. NET and Introduction to Artificial Intelligence	6	4
S.ITS.5.PJ	Scientific Communication Skills & Project	1	-
TOTAL		33	28

SEMESTER - VI TYBSC (IT)

Code	Course Title	L/W	Credits
S.ITS.6.01	Big Dats and Cloud Computing	4	4
S. ITS.6.02	Enterprise Resource Planning	4	4
S. ITS.6.03	Advanced Java	4	4
S. ITS.6.04	Software Testing	4	4
S. ITS.6.PR	Mobile Application Development & Advanced Java	6	4
S. ITS.6.PJ	Project, Scientific Communication Skills	3+9	8
TOTAL		34	28

7.3.7. Summary of B.Sc. (IT) Courses

7. UNDERGRADUATE COURSE CONTENT (SELF-FINANCED)

Note: One Credit consists of 30 hours of contact and self-study.

F.Y.B.Sc. (IT) PER SEMESTER								
Course	Th-1	Th-2	Th-3	Th-4	Th-5	Th-6	Prac	Total
L / W	3	4	4	4	4	4	6	29
Credits	3	21						

S.Y.B. Sc. (IT) PER SEMESTER								
Course	Th-1	Th-2	Th-3	Th-4	Th-5	Th-6	Prac	Total
L / W	3	4	4	4	4	4	12	35
Credits	3	3	3	3	3	3	6	24

T.Y.B. Sc. (IT) SEMESTER V								
Course	Th-1	Th-2	Th-3	Th-4	Th-5	Prac	Th-6	Total
L / W	4	4	4	4	4	12	1	33
Credits	4	4	4	4	4	8	-	28

T.Y.B. Sc. (IT) SEMESTER VI							
Course	Th-1	Th-2	Th-3	Th-4	Prac	Project	Total
L / W	4	4	4	4	6	12	32
Credits	4	4	4	4	4	8	28

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.1. M.Sc. Programme in Botany, Geology, Life Science & Bio-Chemistry and Microbiology

- 8.1.1. Admissions to the above courses will begin only after the declaration of the B.Sc. Degree results of the University of Mumbai sometime in the second or third week of June.
- 8.1.2. The College has introduced an **ONLINE** application system for the above mentioned First Year post-graduate M.Sc. Part-I courses. **All candidates applying for admission are expected to apply through the online application system on the homepage of the website www.xaviers.edu.**
- 8.1.3. The Online Application fee of Rs. 250 is to be paid by demand draft in favour of "St. Xavier's College, Mumbai" payable in Mumbai.
- 8.1.4. The last date for submission of online application forms for admission to the College and dates for display of merit lists will be put up on the homepage of our website after the declaration of the B.Sc. Degree results of Mumbai University.
- 8.1.5. **Eligibility Certificate: Students passing the B.Sc. Degree from Universities other than Mumbai University** and seeking admissions to First Year M.Sc. Courses are required to apply for a **Provisional Eligibility Certificate** through the College at the time of admission. The application form, available at the College Office, duly filled in should be submitted with an attested copy of the B.Sc. Degree marksheet and a passport size photograph along with the prescribed fees of Rs.320 & Rs.500 (for verification of documents) to the College Office. Once admission is granted, for confirmation of the eligibility, students should submit to the College Office, before the close of the First Semester, the Passing Certificate and the Migration Certificate all in originals.
- 8.1.6. **Total No. of Seats:** 20 seats each for **Botany, Life Science & Bio-Chemistry, Microbiology and Geology.**
- 8.1.7. **Fees:** including deposit and laboratory fees, as sanctioned by the Board of Management, St. Xavier's College - Autonomous:

M.Sc. Part I : Rs.14,933 (approx.)

M.Sc. Part II : Rs.13,342 (approx.)

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.1.8. Reservation of Seats: Table 8.1 shows this distribution, as per the directives given in the University of Mumbai Circular No.Spl.Cell/(68)/218/2005 dated 3rd June, 2005.

Table 8.1

Sr. No.	Category	% of Seats
	TOTAL SEATS	100%
1.	Management Quota	15% : Only for those the College is obliged to
	BALANCE SEATS	85%
2.	Christian Minority - 50%	43% : (On the balance seats of 85%)
3.	General Category - 25%	21% : (On the balance seats of 85%)
4.	Reserved Category : (SC/ST/DT(A) / NT(B) /NT(C) /NT(D)/OBC/SBC) Visually/Physically Challenged and Special Category**	21% : (On the balance seats of 85%)

8.1.9. Note: Special Category refers** to:

- 8.1.9.1.** Wards of Transferred State / Central Govt. and Pvt. Sector employees, employees of Defence Dept. / ex-servicemen.
- 8.1.9.2.** Wards of Freedom Fighters, physically handicapped candidates, and students who have met with accidents.
- 8.1.9.3.** Award Winners at the District / State / National Levels in Sports or Cultural Activities.

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.2. M.Sc. DEGREE IN BOTANY

8.2.1. Introduction:

Botany is a discipline of the Biological Sciences and specifically the Science of Plant Life. The field of Botany covers a wide range of scientific disciplines including structure, growth, reproduction, physiology, metabolism, development, diseases, chemical properties, classification and evolutionary relationships among the taxonomic groups of plants. Botany began with early human efforts to identify edible, medicinal and poisonous plants, making it one of the oldest branches of science. The study of plants is vital because they are a fundamental part of life on earth, and generate the oxygen and food that allow humans and other organisms to exist. India is rich in Biodiversity of plants and other biological organisms. It is a source of our food, medicine and many other requirements of life. Biodiversity is one of the important areas to be studied and understood.

In order to cater to this need, the Botany Department of St. Xavier's College (Autonomous) offers the M.Sc. degree in Botany under its Autonomous system which allows us to design our own syllabi and our own evaluation system. The degree is awarded by the University of Mumbai.

8.2.2. Eligibility Criteria:

A candidate for being eligible for admission to the M.Sc. Degree in Botany should have passed the B.Sc. (Three year integrated course) degree examination of Mumbai University with at least seven units (i.e. minimum required for majoring in a subject) in Botany **or** B.Sc. Botany from any other University recognized as equivalent thereto.

8.2.3. The List Of Courses / Specializations:

St. Xavier's College (Autonomous), Mumbai offers the M.Sc. Degree in Botany in one specialization, viz., Angiosperm Taxonomy.

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.2.4. Syllabi per Semester

Semester I

Code	Course Title	(L + P)	Credits
S.BOT.7.01	Plant Diversity – IV: Algae & Fungi	4 + 2	4 + 2
S.BOT.7.02	Plant Diversity – V: Gymnosperms & Angiosperms	4 + 2	4 + 2
S.BOT.7.03	Plant Physiology and Biochemistry	4 + 2	4 + 2
S.BOT.7.04	Molecular Biology	4 + 2	4 + 2

Semester II

Code	Course Title	(L + P)	Credits
S.BOT.8.01	Plant Diversity -VI: Bryophytes & Pteridophytes	4 + 2	4 + 2
S.BOT.8.02	Plant Anatomy, Developmental Botany & Palynology	4 + 2	4 + 2
S.BOT.8.03	Ecology and Environmental Botany - II	4 + 2	4 + 2
S.BOT.8.04	Medicinal Botany	4 + 2	4 + 2

Semester III

Code	Course Title	(L + P)	Credits
S.BOT.9.01	Biostatistics, Bioinformatics & Nanotechnology	4 + 2	4 + 2
S.BOT.9.02	Plant Pathology	4 + 2	4 + 2
S.BOT.9.03	Horticulture	4 + 2	4 + 2
S.BOT.9.04	Angiosperms – IV	4 + 2	4 + 2

Semester IV

Code	Course Title	(L + P)	Credits
S.BOT.10.01	Techniques & Instrumentation	4 + 2	4 + 2
S.BOT.10.02	Angiosperms - V	4 + 2	4 + 2
S.BOT.10.03	Angiosperms - VI	4 + 2	4 + 2
S.BOT.10.04	Angiosperms – VII	4 + 2	4 + 2

L = Lectures per week and P = Practicals per week

8.2.5. Scheme of Evaluation: The post graduate program in Botany will carry a weightage of 96 credits

8.2.5.1. Semester I, II, III & IV Credit distribution per semester is shown in Table 8.2

8. POSTGRADUATE COURSE CONTENT (AIDED)

Table 8.2

Subject	Subject Course 1, 2, 3 and 4 Theory	Subject Course 1, 2, 3 and 4 Practical	Total
L / W	16	16	32
Credits	16	08	24

8.2.6. Schemes of Evaluation (for each Course):

End Semester Exam 60% + Internal Assessment 40%.

A Research Project in the Semester IV will be a compulsory requirement.

8.2.7. Facilities in the Department:

The Botany Department of St. Xavier's College is the only department in the entire Mumbai University having the Blatter Herbarium with its collection of 200,000 herbarium specimens which includes a major collection of Angiosperm. In addition it also holds a collection of algae, fungi and Gymnosperms. The Herbarium also has a well-stocked attached library having 5000 volumes of Angiosperm Taxonomy related books, and various national and international research journals. The department also offers the Ph.D. Programme in Angiosperm Taxonomy. We have two newly developed, well equipped, multimedia enabled dedicated postgraduate labs for the M.Sc. Programme. A central Instrumentation facility (CIF Lab) provides access to a number of advanced and newly acquired instruments required for practicals.

8.2.8. Other Activities of this programme:

The Course is aimed at training the PG students for research. Students have to give regular seminars in the subject. Field trips accompanied by qualified and experienced teachers along with PhD students are an integral part of this programme.

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.3. M.Sc. DEGREE IN GEOLOGY:

8.3.1. Eligibility criteria:

Graduates with a degree from a recognized University / College with major subject as Geology (at least 50% of the total credits earned or equivalent in marks, should be in Geology) can apply. Graduates from colleges affiliated to other Universities (other than Mumbai) will need the eligibility certificate from the University of Mumbai.

8.3.2. List of Courses:

The courses offered at the post graduate program (four semesters) in Geology have been designed by keeping the present day industry requirements in mind. A dissertation in the final semester is aimed at exposing the learner to present day trends of research in the subject.

8.3.3. Syllabi per Semester

Semester I

Code	Course Title	L/W	Credits
S.GEO.7.01	Stratigraphy and Geology of India	4	4
S.GEO.7.02	Geochemistry	4	4
S.GEO.7.03	Structural Geology	4	4
S.GEO.7.04	Advanced Gemmology	4	4
S.GEO.7.01.PR	Stratigraphy and Geology of India	1	2
S.GEO.7.02.PR	Geochemistry	1	2
S.GEO.7.03.PR	Structural Geology	1	2
S.GEO.7.04.PR	Advanced Gemmology	1	2

Semester II

Code	Course Title	L/W	Credits
S.GEO.8.01	Remote Sensing and Digital Image Processing.	4	4
S.GEO.8.02	Igneous Petrology	4	4
S.GEO.8.03	Metamorphic Petrology	4	4
S.GEO.8.04	Sedimentary Petrology	4	4
S.GEO.8.01.PR	Remote Sensing and Digital Image Processing.	1	2
S.GEO.8.02.PR	Igneous Petrology	1	2
S.GEO.8.03.PR	Metamorphic Petrology	1	2
S.GEO.8.04.PR	Sedimentary Petrology	1	2

8. POSTGRADUATE COURSE CONTENT (AIDED)

Semester III

Code	Course Title	L/W	Credits
S.GEO.9.01	General and Invertebrate Paleontology	4	4
S.GEO.9.02	Hydrogeology	4	4
S.GEO.9.03	Geophysical Prospecting	4	4
S.GEO.9.04	Coal and Petroleum Geology	4	4
S.GEO.9.01.PR	General and Invertebrate Paleontology	1	2
S.GEO.9.02.PR	Hydrogeology	1	2
S.GEO.9.03.PR	Geophysical Prospecting	1	2
S.GEO.9.04.PR	Coal and Petroleum Geology	1	2

Semester IV

Code	Course Title	L/W	Credits
S.GEO.10.01	Micropaleontology and Oceanography	4	4
S.GEO.10.02	Engineering Geology	4	4
S.GEO.10.03	Economic Geology	4	4
S.GEO.10.04	Dissertation	8	6
S.GEO.10.01.PR	Micropaleontology and Oceanography	1	2
S.GEO.10.02.PR	Engineering Geology	1	2
S.GEO.10.03.PR	Economic Geology	1	2

8.3.4. Scheme of Evaluation: The post graduate program in Geology will carry a weightage of 96 credits

8.3.4.1. Semesters I, II and III Credit distribution per semester is shown in Table 8.3

Table 8.3

Subject	Subject Course 1, 2, 3 and 4 theory	Subject Course 1, 2, 3 and 4 Practical	Total
Lectures/ Week	16	16	32
Credits	16	08	24

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.3.4.2. Semester IV Credit distribution is shown in Table 8.4

Table 8.4

Subject	Subject Course 1,2 and 3 theory	Subject Course 1,2 and 3 Practical	Dissertation*	Total
L/W	12	12	08	32
Credits	12	06	06	24

8.3.4.3. Note:

8.3.4.3.1. Every theory course is 4 credits and practical of 2 credits each.

8.3.4.3.2. *The Dissertation comprises of 6 credits. The Dissertation entails field work, lab work, report, presentation and *viva voce*.

8.3.5. Evaluation (Theory and Practical Courses):

8.3.5.1. Continuous Internal Assessment - 40 %

8.3.5.2. End Semester Examination – 60 %

8.3.6. Facilities in the Department:

8.3.6.1. Along with the standard laboratory equipment for Earth Sciences, the Department has research grade petrological microscopes and student petrological microscopes. The rock and mineral section cutting unit is well equipped with machines and trained manpower for preparing rock and mineral thin sections. Five microscopes are procured for ore-microscopy studies. For sedimentology work, a sieve shaker with standard set of sieves and good binocular zoom microscopes are available. Ground water exploration work is done using the Electrical Resistivity and Sounding system. The department has licensed software for the GIS and Remote Sensing work. Modern surveying equipment such as GPS, Theodolite, Auto Level along with all accessories is available for detailed field mapping.

8.3.6.2. The Department was recently gifted a portable Radiation counter (Geiger Muller Counter) and a portable short wave

8. POSTGRADUATE COURSE CONTENT (AIDED)

UV lamp for mineral exploration. Facilities for wet and dry chemical analysis of rocks and standard equipment for measuring load bearing capacity of rocks (unconfined compressive strength) is available. Over the span of about 90 years, the Department has accumulated a formidable collection of rocks and mineral specimens from around the world. A well-stocked rock thin section library is also present. Topographical maps covering almost the entire country are available in digital form and also in print along with digital satellite imageries of large parts of the country. The centralized library has some of the latest publications in Earth Sciences and allied fields and is also supported by the online N-List (INFLIBNET) and a considerable collection of reference books in the departmental and faculty library.

- 8.3.6.3.** Field work is a mandatory component of the program and is an integral part of the credits. Learners are also encouraged to participate in summer and winter internships, for which, placement assistance is provided by the Department.

8.4. M.Sc. DEGREE IN LIFE SCIENCE & BIOCHEMISTRY:

8.4.1. Introduction:

The Department of Life Sciences & Biochemistry offers two post-graduate programmes:

8.4.2. MSc. (By Papers) in Applied Medical Science:

- 8.4.2.1.** Life Science is a vast subject that is structured to engage a student in multiple avenues of biology. The applied sciences draw from the fundamentals that are taught in the programme and focus attention on the medical field. This acts as a launch pad for careers in diverse fields, ranging from purely academic endeavour such as research and teaching to entrepreneurship, law, science writing etc. The programme is designed to strengthen and enhance a student's understanding and knowledge of Biology by exposure, over a two year period, to several fields such as Cell Biology, Physiology, Genetics, Immunology, Microbiology etc in mainstream biology and allied fields

8. POSTGRADUATE COURSE CONTENT (AIDED)

such as Biochemistry, Biostatistics, Pharmacology, Forensics etc. This allows students to make more informed choices when planning a career.

8.4.2.2. The programme will be conducted by the eleven faculty of the department using a blended learning approach which includes classical classroom teaching, self-study, experiential learning, seminars, presentations, field visits etc. As part of their training, every student will have to work on a research project in the second year and submit a dissertation on it. The students are also strongly encouraged to complete summer internships to complement the programme.

8.4.2.3. In addition, the college is considering the option of permitting students to complete one semester in a Foreign University (from a list provided by the college) and transfer the credits accrued into our programme. This will provide an exposure to an alternate and global educational system for a meaningful period adding merit and invaluable experience.

8.4.3. MSc. (By Research) in Life Science & Biochemistry:

There are two research guides for a PG programme in the department. Interested candidates may approach the department for further details.

8.4.4. Eligibility Criteria:

8.4.4.1. Graduates in Botany, Biochemistry, Biotechnology, Life Science, Microbiology, Zoology from the University of Mumbai are all eligible.

8.4.4.2. Graduates in any of the above-mentioned disciplines from another Indian University are eligible, but will have to submit a provisional eligibility certificate.

8.4.4.3. Process of Selection: Applicants will be selected on the basis of the TYBSc marks / grades + interview.

8. POSTGRADUATE COURSE CONTENT (AIDED)

8.4.5. Syllabi per Semester:

Semester I

Code	Course Title	(L + P)	Credits
S.LSC.7.01	Genetics and Evolution	4 + 2	4 + 2
S.LSC.7.02	Scientific Comm., Research Methodology, IPR and Entrepreneurship	4 + 2	4 + 2
S.LSC.7.03	Biochemistry	4 + 2	4 + 2
S.LSC.7.04	Basic Mathematics and Biostatistics	4 + 2	4 + 2

Semester II

Code	Course Title	(L + P)	Credits
S.LSC.8.01	Cell Biology	4 + 2	4 + 2
S.LSC.8.02	Human Physiology - I	4 + 2	4 + 2
S.LSC.8.03	Immunology	4 + 2	4 + 2
S.LSC.8.04	Microbial Diseases	4 + 2	4 + 2

Semester III

Code	Course Title	(L + P)	Credits
S.LSC.9.01	Clinical Microbiology & Public Health	4 + 2	4 + 2
S.LSC.9.02	Human Physiology - II	4 + 2	4 + 2
S.LSC.9.03	Molecular Biology & Recombinant DNA Technology	4 + 2	4 + 2
S.LSC.9.04	Analytical Techniques	4 + 2	4 + 2

Semester IV

Code	Course Title	(L + P)	Credits
S.LSC.10.01	Human Genetics	4 + 2	4 + 2
S.LSC.10.02	Pharmacology & Neutraceuticals	4 + 2	4 + 2
S.LSC.10.03	Lab Management and Routine Diagnostics	4 + 2	4 + 2
S.LSC.10.04	Applied Biology	4 + 2	4 + 2

L = Lectures per week and P = Practicals per week

8.4.6. Semester I, II, III & IV Credit distribution per semester is shown in Table 8.5

8. POSTGRADUATE COURSE CONTENT (AIDED)

Table 8.5

Subject	Subject Course 1, 2, 3 and 4 Theory	Subject Course 1, 2, 3 and 4 Practical	Total
L / W	16	16	32
Credits	16	08	24

8.4.7. Scheme of Evaluation:

8.4.7.1. Internal 40%: 2 internal tests each for 20% of the total marks Tests / Quizzes / MCQs / Assignments / Essays / Case Studies / Presentations/ Projects/Surveys

8.4.7.2. External 60%: 1 Examination for 2 hours at the end of each semester

8.4.8. Facilities in the Department:

8.4.8.1. The Department of Life Science & Bio-Chemistry is recognized by the University of Mumbai for MSc (by Research) and PhD, with research guides for both.

8.4.8.2. Hence all equipment and requirements for MSc (by Papers) are available.

8.4.8.3. Other activities for this course: Seminars and Presentations, Research Projects, Internships / Industrial Visits.

8.5. M.Sc. DEGREE IN MICROBIOLOGY:

8.5.1. Introduction: The Department of Microbiology, St. Xavier's College, is the oldest Microbiology Department in the Country (over eighty years old). Microbiology, one of the three classical disciplines in the Biological Sciences is an extremely diverse and complex field. A constantly changing and advancing science it has spawned the evolution of modern scientific disciplines like microbial biotechnology, genetic engineering, immunology, molecular biology, genomics and solve many challenges in health, energy, environment, etc. This 2-year, 4-semester autonomous credit-based M.Sc. programme is affiliated to the

8. POSTGRADUATE COURSE CONTENT (AIDED)

University of Mumbai. The course is designed to provide students with training and research experience that will prepare them for a wide range of careers in pure and applied sciences.

8.5.2. Number of Students: 20 students per year.

8.5.3. Eligibility criteria: A candidate for being eligible for admission to the M.Sc. Degree in Microbiology should have passed the B.Sc. (Three year integrated course) degree examination of Mumbai University with at least seven units (i.e. minimum required for majoring in a subject) in Microbiology **OR** B.Sc. Microbiology from any other University.

8.5.4. Syllabi per Semester

Semester I

Code	Course Title	L/W	Credits
MS.MIC.7.01	Virology and Cell Biology	4	4
S.MIC.7.02	Genetics	4	4
S.MIC.7.03	Microbial Biochemistry I	4	4
S.MIC.7.04	Immunology	4	4
S.MIC.7.PR	Practicals	16	8

Semester II

Code	Course Title	L/W	Credits
S.MIC.8.01	Cell Biology	4	4
S.MIC.8.02	Genetics and Bioinformatics	4	4
S.MIC.8.03	Microbial Biochemistry II	4	4
S.MIC.8.04	Medical Microbiology	4	4
S.MIC.8.PR	Practicals	16	8

Semester III

Code	Course Title	L/W	Credits
S.MIC.9.01	Research Methodology and Biostatistics	4	4
S.MIC.9.02	Tools and Techniques: Biomolecular Analysis	4	4
S.MIC.9.03	Advances in Biotechnology - I	4	4
S.MIC.9.PR	External Project	4 Months	12

8. POSTGRADUATE COURSE CONTENT (AIDED)

Semester IV

Code	Course Title	L/W	Credits
S.MIC.10.01	Applied & Environ'tal Microbiology, Monitoring & Mgt	4	4
S.MIC.10.02	Food Microbiology	4	4
S.MIC.10.03	Pharmaceutical Microbiology	4	4
S.MIC.10.04	Advances in Biotechnology – II	4	4
S.MIC.10.PR	Practicals	16	8

Note: Semester III: External Project is for a period of 4 months at various research institutes like BARC, TIFR, NCL, ACTREC, FMR, TMC, et al.

8.5.5. Semester I, II, III & IV Credit distribution per semester is shown in Table 8.6

Table 8.6

Subject	Subject Course 1, 2, 3 and 4 Theory	Subject Course 1, 2, 3 and 4 Practical	Total
L / W	16	16	32
Credits	16	08	24

8.5.6. Scheme of Examination

8.5.6.1. Theory Courses: 2 Continuous Internal Assessment and 1 End semester evaluation per course per semester.

8.5.6.2. Practical Courses: 1 Continuous Internal Assessment and 1 End semester evaluation per course per semester.

8.5.6.3. Evaluation of the semester 3 project is based on the dissertation submitted, a presentation and **viva-voce**.

8.5.6.4. Evaluation of the semester 4 project is based on the dissertation submitted, a presentation and **viva-voce**.

8.5.7. Facilities of the Department:

8.5.7.1. It is well equipped for teaching Modern Microbiology, through the 'Palacios Research Lab'

8.5.7.2. A Common Instrumentation Facility with sophisticated instruments to carry out teaching, as well as research, in the biological sciences, and an in-house library.

8.5.8. Co-curricular Activities: Annual Khandala Seminar, Industrial visits.

8. POSTGRADUATE COURSE CONTENT (AIDED)

9.1. M.A. DEGREE IN ANCIENT INDIAN HISTORY, CULTURE AND ARCHAEOLOGY

9.1.1. Introduction: In an endeavor to further the holistic understanding of Ancient Indian Culture in all its parameters, this course provides a sound grounding in understanding the various vistas of our history and culture. It helps in promoting the conservation of our heritage and also helps in heritage management. It opens the door to opportunities in the streams of Archaeology, Museology, Conservation, Social Sciences and Humanities.

9.1.2. Aims and Objectives:

1. To understand various phases of evolution of Indian Culture.
2. To comprehend the theoretical framework in which Indian Culture has been understood by scholars.
3. To create an awareness about the theoretical foundation of Indian Archaeology by teaching the basics of Field Archaeology.
4. To engage with the vast variation in Archaeological data in the context of Indian Culture and History.
5. To work with Archaeological data and analyses.
6. To have practical experience through field trips, practical, workshops
7. To appreciate the theoretical foundations of Museology as well as the various functions and scope of the Museum.

9.1.3. Number of Seats: 60 Seats

9.1.4. Reservation of Seats: Refer 8.1.8. Table 8.1, page 84

9.1.5. Fees: The total fees, sanctioned by the Board of Mgt., St. Xavier's College (Autonomous), Mumbai are:

M.A. Part I	:	Rs.7,700 (approx.)
M.A. Part II	:	Rs.6,535 (approx.)

9.1.6. Eligibility:

- 9.1.6.1. Students with a bachelor's degree in any faculty or discipline, with a minimum of 50% marks can apply.
- 9.1.6.2. Students from the non-Arts faculties will have to appear for an entrance exam and an interview.

8. POSTGRADUATE COURSE CONTENT (AIDED)

9.1.6.3. Students from other universities will require their transfer certificate and will have to apply for a provisional eligibility certificate from the University of Mumbai.

9.1.6.4. Original marksheets needed at admission time.

9.1.7. **Eligibility Certificate:** Refer 8.1.5, page 83

(Note: Read B.Sc. as B.A. and M.Sc. as M.A.)

9.1.8. **Pattern of Evaluation:**

9.1.8.1. Two units of CIAs:

9.1.8.1.1. CIA 1 (20 marks) will be a Class Test

9.1.8.1.2. CIA 2 (20 Marks) will be either a Home Assignment, Class Test, Project Report, Oral Exam (for Language Papers), Field Visit Report, Paper Presentation, et al.

9.1.8.2. The ESE will be for 60 marks. In each Question Paper, there will be 4 compulsory questions (15 marks each). Each question will be given the internal option.

9.1.8.3. Semester IV a Research Thesis will have to be submitted under the guidance of a Research Guide for 80 marks.

9.1.9. **Syllabi per Semester**

L = Lectures per week & S = Self-Study hours per week

Semester I

Code	Course Title	(L + SS)	Credits
A.AIC.7.01	Ancient India Through the Ages - I	4 + 2	6
A.AIC.7.02	Studies in Indian Archaeology	4 + 2	6
A.AIC.7.03	Study of Epigraphy & Numismatics of India	4 + 2	6
A.AIC.7.04	Socio- Political, Economic and Scientific Aspects in Ancient India	4 + 2	6

Semester II

Code	Course Title	(L + SS)	Credits
A.AIC.8.01	Ancient India through the Ages - II	4 + 2	6
A.AIC.8.02	Facets of Indian Art and Architecture	4 + 2	6
A.AIC.8.03	Introduction to Buddhist Studies	4 + 2	6
A.AIC.8.04	Research Methodology in Ancient Indian History, Culture and Archaeology	4 + 2	6

8. POSTGRADUATE COURSE CONTENT (AIDED)

Semester III

Code	Course Title	(L + SS)	Credits
A.AIC.9.01	Religious & Philosophical thoughts in Ancient India	4 + 2	6
A.AIC.9.02	Studies in Indian Iconography, Paintings and Temple Architecture	4 + 2	6
A.AIC.9.03	Studies in Conservation and Restoration.	4 + 2	6
A.AICE.9.04	Introduction to Pali Language	4 + 2	6
A. AICE.9.05	Remedial Conservation of Tangible Heritage	4 + 2	6

Semester IV

Code	Course Title	(L + SS)	Credits
A.AIC.10.01	Museology and Preventive Conservation of Sites and Collections	4 + 2	6
A.AIC.10.02	A Study of the Cultural History of World Civilization	4 + 2	6
A.AICE.10.03	History of Performing Arts and Theatre in India	4 + 2	6
A.AICE.10.04	Remedial Conservation of Tangible Heritage- II	4 + 2	6
A.AICE.10.05	Maritime Heritage of Ancient India	4 + 2	6
A.AIEC.10.06	Brief study of the Comparative Mythology of the World.	4 + 2	6

- 9.1.9.1.** In Semester III, students have to choose one course from A.AICE.9.04 & A.AICE.9.05.
- 9.1.9.2.** In Semester IV, students have to choose one course from:
- 9.1.9.2.1.** A.AICE.10.03 & A.AICE.10.04
- 9.1.9.2.2.** A.AICE.10.05 & A.AICE.10.06
- 9.1.9.3.** The Self-Study Hours of each student are monitored by the concerned Lecturer via the quality of the student's participation in the class room deliberations.
- 9.1.9.4.** Semester I, II, III & IV Credit distribution per semester is shown in Table 8.7.

Table 8.7

Subject	Total
L / W	24
Credits	24

9. POSTGRADUATE COURSES (SELF-FINANCED)

9.1. M.Sc. IN BIOTECHNOLOGY

- 9.1.1.** Genetic engineering has revolutionized biotechnology in the past three decades. India has witnessed a rapid growth in the biotechnology sector with a prominent presence in Recombinant Vaccines, Biosimilars and Transgenic Cotton. With numerous comparative advantages in terms of research development (R & D) facilities, knowledge, skills and cost effectiveness, the biotechnology industry in India has immense potential to emerge as a global key player. In the recent past, there has been a considerable investment and input, in manpower development, in biotechnology R & D and in the Biotech industry.
- 9.1.2.** To cater to this increasing need for trained professionals, St. Xavier's College began the MSc - Biotechnology programme affiliated to the University of Mumbai from the academic year 2007-08. In June 2010, St Xavier's College was granted academic autonomy and the MSc -Biotechnology programme came under the umbrella of academic autonomy from the academic year 2012-13. The Masters degree will be awarded by the University of Mumbai.
- 9.1.3.** We have a two year MSc Biotechnology degree programme with an intake of **30 students** per year. The programme is structured as a 4-semester credit based system with Continuous Internal Assessment and End semester evaluations.
- 9.1.4. Selection Process:** Admission to the course will be purely merit based in accordance with the marks obtained in Biotechnology at the T. Y. B. Sc. examination. Applications for the course will be available Online.
- 9.1.5. Reservation of Seats:** Refer Section 8.1.8. Table 8.1, page 83
- 9.1.6. Eligibility:**
- 9.1.6.1.** B.Sc. Biotechnology (3-year integrated course) degree examination of Mumbai University or any other University recognized as equivalent thereto, with at least 6 units in Biotech (i.e. minimum required for majoring in the subject)
- 9.1.6.2. OR** With three units in Biotechnology at the T.Y.B.Sc in combination with three units of any other major subject at the T.Y.B.Sc

9. POSTGRADUATE COURSES (SELF-FINANCED)

9.1.7. Fees: The total fees, including deposit and laboratory fees, as sanctioned by the Board of Management, St. Xavier's College:

M.Sc. Part I : Rs.55,806 (approx.)

M.Sc. Part II : Rs.51,499 (approx.)

9.1.8. Syllabi per Semester

Semester I

Code	Course Title	L/W	Credits
S.BTS.7.01	Biomolecules	4	4
S. BTS.7.02	Immunology	4	4
S. BTS.7.03	Molecular Biology - I	4	4
S. BTS.7.04	Membrane Studies and Cell Cycle Regulation	4	4
S.BTS.7.01PR	Basic Laboratory Skills	2	2
S. BTS.7.02PR	Microbiological & Mol. Bio Techniques	2	2
S. BTS.7.03PR	Biochemistry	2	2
S. BTS.7.04PR	Computational Tools in Biology	2	2

Semester II

Code	Course Title	L/W	Credits
S. BTS.8.01	Metabolism and Plant Cell Culture	4	4
S. BTS.8.02	Clinical Immunology	4	4
S. BTS.8.03	Molecular Biology - II	4	4
S. BTS.8.04	Advanced Analytical Techniques	4	4
S. BTS.8.01PR	Biochemical Techniques & Assays	2	2
S. BTS.8.02PR	Molecular Biology	2	2
S. BTS.8.03PR	Immunology & Animal Cell Culture	2	2
S. BTS.8.04PR	Analytical Techniques & Data Interpretation	2	2

9. POSTGRADUATE COURSES (SELF-FINANCED)

Semester III

Code	Course Title	L/W	Credits
S. BTS.9.01	Biostatistics and Bioinformatics	4	4
S. BTS.9.02	Applications of Biotechnology	4	4
S. BTS.9.03	Bioprocess Technology	4	4
S. BTS.9.04	Environmental Biotechnology and IPR	4	4
S. BTS.9.01PR	Bioinformatics	2	2
S. BTS.9.02PR	Animal Cell Culture	2	2
S. BTS.9.03PR	Bioprocess Technology	2	2
S. BTS.9.04PR	Research Methodology	2	2

Semester IV

Code	Course Title	L/W	Credits
S. BTS.10.01	Drug Designing and Nanotechnology	4	4
S. BTS.10.02	Entrepreneurship and IPR	4	4
S. BTS.10.01PR	Intellectual Property Rights	2	2
S. BTS.10.02PR	Entrepreneurship	2	2
S.BTS.10PR	4 to 5 months of internship& Research Project	-	12

L = Lectures per week and P = Practicals per week

9.1.9. Semester I, II & III Credit distribution per semester is shown in Table 9.1

Table 9.1

Subject	Theory	Practicals	Total
Course	1, 2, 3, 4	1, 2, 3, 4	
L / W	16	16	32
Credits	16	08	24

9. POSTGRADUATE COURSES (SELF-FINANCED)

9.1.10. Semester IV Credit distribution per semester is shown in Table 9.2

Table 9.2

Subject	Theory	Practicals	Research Project	Total
Course	1, 2	1, 2	10 PR	
L / W	08	08	4 to 5 months	16
Credits	08	04	12	24

9.1.11. Scheme of Examination:

9.1.11.1. **Theory Courses:** 2 Continuous Internal Assessment and 1 End semester evaluation per course per semester.

9.1.11.2. **Practical Courses:** 1 Continuous Internal Assessment and 1 End semester evaluation per course per semester.

9.1.11.3. Evaluation of the semester 4 project is based on the dissertation submitted, a presentation and **viva-voce**.

9.1.12. Facilities of the Department:

9.1.12.1. It is well equipped for teaching Modern Biology.

9.1.12.2. It has an independent Bioinformatics Lab for the students and an in-house Library facility.

9.1.12.3. A Common Instrumentation Facility with sophisticated instruments to carry out teaching, as well as research, in the biological sciences, and an in-house library.

9.1.13. Extracurricular Activities

9.1.13.1. Students organise “Palindrome”, an intercollegiate fest and the publishing of the magazine of the department, also known as Palindrome.

9.1.13.2. Every year an industrial visit is organised, for the Semester I students, to different biotechnology-related industries in different parts of India.

9.1.13.3. Students are also taken to St Xavier’s Villa at Khandala – our Human Development Resource Centre, for their annual seminar, where they present research papers on various aspects of current trends in Biotechnology.

9. POSTGRADUATE COURSES (SELF-FINANCED)

9.2. M.A. IN PUBLIC POLICY

9.2.1. Introduction: Public Policy, an integral aspect of governance, touches all aspects of life. This makes it necessary for the academic world to engage with public policy to understand it, critically analyze it and thus ensure efficient governance and a just society. Currently in India, there is an acute dearth of post-graduate degree courses in public policy. It is in view of this lacuna that St. Xavier's College, Mumbai, an autonomous college affiliated to University of Mumbai launched the Master in Public Policy (MPP) Course in 2013. This two-year course is completely multi-disciplinary covering subjects like sociology, politics, economics, law, history, philosophy and ethics and even the natural sciences. This course is ideal for:

- i. Civil Servants, NGO / Development practitioners or those who aspire to join government services / NGOs.
- ii. Those who aspire to research and publish in the field of Public Policy, especially those who wish to join policy research centres / organizations.
- iii. Those who wish to work in the field of Corporate Social Responsibility; Communications / Media related work around policy issues; consulting for Public Sector.

9.2.2. Course Outcomes: Our students have interned / worked with RBI, NABARD, EPW Research Foundation, Centre for Civil Society, PRS Legislative Research, India Spend, Action for Agricultural Renewal of Farmers in Maharashtra, Jameel Poverty Action Lab in collaboration with the Maharashtra Pollution Control Board, McKinsey, IGIDR, UNDP, Economic Times, Childline, Haqdarshak. Some internships outcomes are:

- i. The Thane Municipal Corporation had shown interest in the suggestions of one of our students on SWM.
- ii. Another student's recommendations presented to the State Election Commissioner (in December 2014) had taken the form of a white paper to be sent to the CM of Maharashtra.
- iii. Centre for Social Research (CSR), Delhi selected one of our students to represent the youth of India at the 60th Commission on the Status of Women at the UN Headquarters, New York in March 2016

9. POSTGRADUATE COURSES (SELF-FINANCED)

- iv. Participation in State Election, Maharashtra funded and Gokhale Institute of Politics and Economics, Pune led survey on voting patterns in five Municipal Corporations.

9.2.3. Number of Seats: 60 Students

9.2.4. Lecture Timings: Evenings (5 pm to 8 pm); 2 lectures per day, on all working days of the week.

9.2.5. Fees: Rs. 60000 / academic year (payable in 3 installments).

9.2.6. Allocation of seats: Refer Section 8.1.8., Table 8.1 page 84

9.2.7. Selection Process:

9.2.7.1. Online Application Forms available on College website from 15th March. Last date for submission is 20th May, 5 pm IST. Online Application Fee is Rs.500.

9.2.7.2. Stage 1: Online uploading of CV and Statement of Purpose for initial shortlisting. Stage 1 will be completed by 30th May of the concerned academic year.

9.2.7.3. Stage 2: Interviews of the candidates shortlisted will be conducted during the first week of June. Admissions will be based on the results of the interviews and the marks / grades of the qualifying degree.

9.2.7.4. Candidates who have sat for their 6th semester, but do not yet have their degree results are eligible to apply for admission. Provisional admission could be offered depending on the scores at the entrance test and after a formal interview with the HoD. Such admissions would be finalized only on the presentation of the Degree Certificate.

9.2.7.5. The Grades awarded by some Universities are converted to percentages according to a formula provided by their respective Universities or by the Association of Indian Universities, New Delhi for foreign students.

9.2.7.6. At the time of admission the candidate must submit the following documents:

- i. Degree Marksheets (Original + 2 attested copies)
- ii. Baptism Certificate (Christians)

9. POSTGRADUATE COURSES (SELF-FINANCED)

- iii. Caste Certificate (for Reserved Category)
- iv. Documentary Evidence regarding Special Category (Refer Section 8.1.9, page 83).

9.2.8. Eligibility: Students with a Bachelor's Degree in any faculty or discipline, with a minimum of 50% marks can apply for this course.

9.2.9. Provisional Eligibility Certificate: Students passing the Degree Examinations other than Mumbai University or from a Foreign University have to apply for a Provisional Eligibility Certificate issued by the University of Mumbai at the time of admission through the College.

9.2.9.1. The duly filled in forms are required to be returned to the College with an attested copy of the Degree marksheet and a passport size photograph along with a prescribed fee of Rs.320 for eligibility and Rs.500 (towards verification of documents) (Total Rs.820).

9.2.9.2. The other documents (all in original) to be handed in are: Degree Marksheet, Pass Certificate and Migration Certificate. The duly filled in application form will then be forwarded to the University of Mumbai for issue of the Provisional Eligibility Certificate.

9.2.10. Students passing the Degree Examinations from Mumbai University will be required to submit the Transfer Certificate issued by their respective Colleges. This needs to be submitted after completion of the admissions process to the College.

9.2.11. Syllabi per Semester:

Semester I

Code	Course Title	(L + SS)/W	Credits
PPCC.7.01	Public Policy Analysis	4 + 1	5
PPCC.7.02	The Politics of Redistribution: issues of Inclusion and Exclusion	4 + 1	5
PPCC.7.03	Economic Analysis and Public Policy	4 + 1	5
PPCC.7.04	Research Methodology	4 + 1	5

Note: L = Contact Hours / Week and SS = Self-Study Hours / Week

9. POSTGRADUATE COURSES (SELF-FINANCED)

Semester II

Code	Course Title	(L + SS)/W	Credits
PPCC.8.01	Law and Public Policy	4 + 1	5
PPCC.8.02	Statistical Methods for Policy Analysis	4 + 1	5
PPEC.8.01	Environment and Public Policy	4 + 1	5
PPEC.8.02	Gender and Public Policy	4 + 1	5
PPEC.8.03	Health Policy	4 + 1	5

Note: L = Contact Hours / Week and SS = Self-Study Hours / Week
Students choose ANY TWO from PPEC 8.01 to PPEC 8.03

Semester III

Code	Course Title	(L + SS)/W	Credits
PPCC.9.01	Development and Public Policy	4 + 2	6
PPCC.9.02	Ethics and Public Policy	4 + 2	6
PPEC.9.01	Urban Planning Policy	4 + 2	6
PPEC.9.02	Rural Development Policy	4 + 2	6
PPEC.9.03	Media and Public Policy	4 + 2	6

Note: L = Contact Hours / Week and SS = Self-Study Hours / Week
Students choose ANY TWO from PPEC 9.01 to PPEC 9.03

Semester IV

Code	Course Title	(L + SS)/W	Credits
PPCC.10.01	International Economics and Public Policy	4 + 2	6
PPCC.10.02	Dissertation	0 + 14	14
PPEC.10.01	Micro Finance and Development	4 + 2	6
PPEC.10.02	Foreign Policy	4 + 2	6
PPEC.10.03	Education Policy	4 + 2	6

Note: L = Contact Hours / Week and SS = Self-Study Hours / Week
Students choose ANY TWO from PPEC 10.01 to PPEC 10.03

- 9.2.11.1.** The Self-Study Hours of each student are monitored by the concerned Lecturer via the quality of the student's participation in the class room deliberations.
- 9.2.11.2.** In the case of Dissertation (PPCC.10.02) the student is expected to meet the supervising lecturer at least once a week throughout Semester IV. Each of these meeting is recorded and weighted for final marking.

9. POSTGRADUATE COURSES (SELF-FINANCED)

9.2.11.3. Semester I, II, III & IV Credit distribution per semester is shown in Table 9.3.

Table 9.3

Semester	Subject	Per Subject Courses	Self-Study Hours	Total	
				L/W	Credits
Sem. I (4 Courses)	L / W	04	01	20	
	Credits	20	--		20
Sem. II (4 Courses)	L / W	04	01	20	
	Credits	20	--		20
Sem. III (4 Courses)	L / W	04	02	24	
	Credits	24	--		24
Sem. IV (4 Courses)	Not for PPCC. 10.02	L / W	04	02	18
		Credits	18	--	18
	For PPCC. 10.02	L / W	00	14	14
		Credits	00	14	
Total Credits					96

9.2.12. Assessment: Each semester has: 2 CIAs (20 marks each) and 1 End Semester Exam (60 Marks)

9.2.12.1. Compulsory Internship between the 2nd and 3rd Semesters. Students work with organizations connected with various aspects of public policy.

9.2.12.2. Courses may change from time to time based on the recommendation of the Board of Studies.

10. Ph.D. PROGRAMME

10.1. Ph.D. Programme Details

10.1.1. The College has recognized Research Guides (by University of Mumbai) for the Ph.D. programme in the following subjects:

10.1.1.1. Science: Botany; Chemistry; Geology; Zoology.

10.1.1.2. Arts: Ancient Indian History, Culture & Archaeology; Hindi; History; Avesta Pahlavi

10.1.1.3. Commerce

10.1.1.4. Table 10.1 shows the names the College faculty who are recognized Research Guides (vis-à-vis the University of Mumbai):

Table 10.1.

Sr. No.	Name of Research Guides	Subjects
1	Dr. Rajendra D. Shinde	Botany
2	Prof. Freddy H. Havaladar	Chemistry
3	Dr. Hrishikesh P. Samant	Geology
4	Dr. Pravin Henriques	Geology
5	Dr. Goutam Bandopadhyay	Geology
6	Dr. (Ms) Madhuri P. Hambarde	Zoology
7	Dr. (Ms) Anita Rane-Kothare	AIHCA
8	Dr. (Ms) Asha Naithani-Dayama	Hindi
9	Dr. (Sr.) Anila Verghese	History
10	Dr. (Ms) Sonali Pednekar	History
11	Dr. Arvind Dhond	Commerce

10.1.1.5. Table 10.2 indicates the various research spaces / facilities that have received recognition from the University of Mumbai:

10. Ph.D. PROGRAMME

Table 10.2.

Sr. No.	Subjects	Specialization	No. of Seats	Sanction No. & Date
1	AIHCA	AIHCA	10	No. 7963, dt 7/9/1999 No. Th / 5910, dt 12/7/1999, Read with No. Th / 6381, dt 21/9/1988 Permanent Recognition
2	History	History	30	
3	Avesta Pahlavi	Avesta Pahlavi	3	
4	Botany	Botany	20	No. Th. / ICD/2012-13 / 2603 dt 30/7/13. Permanent Recognition
5	Chemistry	Chemistry	20	No Th / 2057 dt 18/3/1997 Permanent Recognition
6	Geology	Geology	10	Permanent Recognition
7	Zoology	Zoology	4	Permanent Recognition

10.2. Qualifications:

M.Sc. / M.A. with C.S.I.R. / U.G.C. J.R.F. / N.E.T., or
Maharashtra S.E.T. or
University of Mumbai – P.E.T.

10.3. Criteria for Registration:

As per procedures laid down by the University of Mumbai.

10.4. Admissions:

All admissions to the above courses begin only after the qualifying examination (refer Table 10.2) results are declared.

10.5. Fees:

As directed by University of Mumbai. Separate Laboratory Fees need to be paid to St. Xavier's College (Autonomous), Mumbai.

10.6. Eligibility Certificate:

Refer page 82, 8.1.5.

10. Ph.D. PROGRAMME

10.7. Departments' Information: Details of depts. which are eligible for guiding Ph.Ds. in St. Xavier's College (Autonomous), Mumbai, as of May 2017:

10.7.1. Department of Botany:

10.7.1.1. Recognition as Research Lab: Permanent (under University of Mumbai) - (Blatter Herbarium)

10.7.1.2. Number of Seats: 20 (13 Registered and 07 Vacant)

10.7.1.3. Recognized Research Guides (by University of Mumbai): Prof. (Ms) Ujwala Bapat (Rtd.), Dr. Rajendra Shinde.

10.7.2. Department of Chemistry:

10.7.2.1. Recognition as Research Lab: Permanent (under University of Mumbai) – (Nadkarny-Sacasa Laboratory)

10.7.2.2. Number of Seats: 20. (02 Registered and 18 Vacant)

10.7.2.3. Recognized Research Guide (by University of Mumbai): Prof. Freddy Havaladar.

10.7.3. Department of Geology:

10.7.3.1. Recognition as Research Lab: Permanent (under University of Mumbai)

10.7.3.2. Number of Seats: 10. (02 Registered and 08 Vacant)

10.7.3.3. Recognized Research Guides (by University of Mumbai): Dr. Hrishikesh P. Samant, Dr. Pravin Henriques and Dr. Goutam Bandyopadhyay.

10.7.4. Department of Zoology:

10.7.4.1. Recognition as Research Lab: Permanent (under University of Mumbai)

10.7.4.2. Number of Seats: 04. (03 Registered and 01 Vacant)

10.7.4.3. Recognized Research Guide (by University of Mumbai): Dr. (Ms.) Madhuri P. Hambarde.

10. Ph.D. PROGRAMME

10.7.5. Department of Ancient Indian History, Culture and Archeology:

10.7.5.1. Recognition as Research Centre: Permanent (under University of Mumbai)

10.7.5.2. Number of Seats: 10. (02 Registered and 08 Vacant)

10.7.5.3. Recognized Research Guide (by University of Mumbai):
Dr. (Ms) Anita Rane-Kothare

10.7.6. Department of History:

10.7.6.1. Recognition as Research Centre: Permanent (under University of Mumbai)

10.7.6.2. Number of Seats: 30 (02 Registered and 28 Vacant)

10.7.6.3. Recognized Research Guides (by University of Mumbai):
Dr. (Sr.) Anila Verghese (Rtd), Dr. (Ms) Sonali Pednekar

11. COLLEGE SHORT-TERM COURSES

11.1. DIPLOMA COURSE IN CLINICAL RESEARCH:

11.1.1. Introduction: Clinical research is a branch of healthcare science that determines the safety and effectiveness of medications, devices, diagnostic products and treatment regimens intended for human use. Clinical trials are conducted in a highly regulated and controlled environment and forms an integral part of the drug development process. Before a new drug is marketed, it has to be proven safe and efficacious, using controlled clinical trials. This course is designed to equip interested candidates with the knowledge and skills to pursue any of the following functions within the clinical research industry, viz., Clinical Operations, Data Management and Clinical Study Co-ordinator. The job opportunities for Clinical Operations (Clinical Trial Assistant / Clinical Research Associate) and Data Management exists within Pharmaceutical companies, Biotechnology companies as well as Contract Clinical Research Organizations (CROs). The job opportunities for Clinical Study Co-ordinators exists at Hospitals and Institutions conducting clinical research.

11.1.2. Curriculum: The course consists of 6 months of class-room training over 24 week-ends and four to six months of internship within the clinical research industry. The curriculum is has six modules:

Module 1: Clinical Research – An Overview; Ethics, Guidelines and Regulations (11 credits)

Module 2: Clinical Trial Planning and Design (9 credits)

Module 3: Clinical Trial Conduct, Compliance and Quality Assurance (9 credits)

Module 4: Pharmacovigilance (4 credits)

Module 5: Data Analysis & Mgt. in Clinical Research (10 credits)

Module 6: Clinical Research Mgt. & Interpersonal Skills (5 credits)

The teaching methodology includes lectures by Industry Professionals, class-room discussions and debates, group assignments and case studies. The Data Analysis and Mgt. Module includes hands-on training in Data Mgt. activities. Evaluations are conducted by a combination of written tests, presentations and performance in class-room and home based assignments.

11.1.3. Course Eligibility:

11.1.3.1. Students with a minimum of a bachelor's degree in any biological science will be eligible to apply for the course, however students with a master's degree will be given preference.

11. COLLEGE SHORT-TERM COURSES

11.1.3.2. A maximum of 25 students will be selected for each batch, based on their academic background and a screening interview.

11.1.4. Course Structure and Evaluation:

11.1.4.1. The course will be conducted at the St. Xavier's College campus and will comprise of

11.1.4.2. 24 weekend lectures; Saturday – 4 hours (2 pm to 6 pm); Sundays – 6 hours (9.00 a.m. to 3.00 p.m.) for 24 credits.

11.1.4.3. Home assignments and assessments (10 hours per week); 24 credits over 24 weeks.

11.1.4.4. 4 to 6 months' industry internship program / dissertation project; 64 to 96 credits.

11.1.4.5. Final assessment and Presentations: 8 credits

11.1.4.6. All students from each batch will be recommended for internship positions to the clinical research industry for a period of 4 months. At the end of the internship, each student will be asked to submit a report and make a presentation to the group. Evaluation will be made based on the written test and the presentation, judged for its content & delivery.

11.1.5. Course Fees: Rs.1,22,000 consolidated (Inclusive of Service Tax). This includes tuition fees, course materials & handouts, refreshments during lectures, video conferencing as applicable, and lecture room facilities.

11.1.6. Contact Details: Dr Radiya Pacha-Gupta or College Website

11.2. DIPLOMA COURSE IN DATA SCIENCE:

11.2.1. Conducted by the Department of Statistics, St. Xavier's College-Autonomous, Mumbai in collaboration with the industry partner Sankhya Analytical Research Pvt. Ltd. Ms Myrtle C Fernandes, HoD (Statistics Department) and Ms Pooja Ochaney, Faculty, Statistics Department are the Co-ordinators.

11.2.2. About the Programme: This course is targeted towards creating Data Scientists who would be well equipped with strong analytical and programming skills. The curriculum is focused on empowering students with knowledge of basic and advanced statistical methods to solve business and research problems. The curriculum is designed based on 12+ years of experience in solving business

11. COLLEGE SHORT-TERM COURSES

and research problems and includes all facets of data science with appropriate weights. The course will be conducted by highly experienced industry professionals and eminent academicians. The teaching methods will include lectures, practical sessions, discussions, group assignments and case studies. The emphasis will be given on explaining the concepts and demonstrating their application using tools like R, R Studio and Rattle. Real life problems across industry verticals will be discussed.

11.2.3. Course Content:

1. Introductory Module
2. Data Management and Exploratory Data Analysis
3. Statistical Inference
4. Predictive Modeling-Fundamentals
5. Predictive Modeling-Advanced
6. Time Series Analysis
7. Unsupervised Multivariate Methods
8. Data Mining
9. Big Data Analytics

11.2.4. **Duration:** Six Months (Part time, only Saturday and Sunday)

11.2.5. **Timing:** Saturday (2 pm to 6 pm) and Sunday (10 am to 2 pm)

11.2.6. **Fees :** Rs. 95,000 (Inclusive of Taxes)

11.2.7. **Starting Date:** 3rd Saturday of June

11.2.8. **Contact Details:** Ms. Myrtle C. Fernandes or Ms. Pooja Ochaney or
Website link: <http://xaviers.edu/main/index.php/pg-diploma-data-science>

11.2.9. **Note:** The Statistics Department of St Xavier's College (Autonomous), Mumbai also conducts Add-on Courses in R programming, SPSS and Excel for the students of the Department.

11.3. DIPLOMA IN FORENSIC SCIENCE AND CRIMINAL LAW

11.3.1. **Conducted by:** Dept. of Zoology and Forensic Science, St. Xavier's College (Autonomous), Mumbai.

11.3.2. **About the Program:** The course has been designed by eminent lawyer Mr. Shrikant Bhat (Senior Advocate and Ex- Public Prosecutor) and by Ms. Riva Pocha and Ms. Sejal Gupta from FACTS, a private forensic consultancy firm, for implementation in St. Xavier's College, Mumbai. This course has been created as an introduction and orientation to the functioning of the Indian Criminal Justice system for all interested professionals from the Police and

11. COLLEGE SHORT-TERM COURSES

from the fields of Security, Legal, Management, Media and Sociology, as well as any citizen and student keen to learn more about forensic science and the law.

11.3.3. Course Content: The course includes:

1. Introduction to Crime Scenes;
2. Processing of Forensic Evidence;
3. Forensic Biology and Human Forensics;
4. Medico-legal Investigations;
5. Document Analysis;
6. Cyber Crime Investigation;
7. The Indian Penal Code;
8. Making of Laws;
9. Gender Justice;
10. Media and the Law;
11. Research methodology and the Law

11.3.4. Duration: One academic year, Part Time.

11.3.5. Timings: Monday, Tuesday, Wednesday evenings

11.3.6. Fees Structure: Rs. 24,200 (including registration)

11.3.7. Pre-registration forms available online: at www.xaviers.edu (under College – Run Courses).

11.3.8. Contact Details:

Dr. Pushpa Sinkar (98203-84648, pushpa.sinkar@xaviers.edu);

Ms. Riva Pocha (98210-40421, riva.pocha@xaviers.edu);

Ms. Sejal Gupta (98209-49850)

11.4. ON-LINE CERTIFICATE COURSE IN FORENSIC SCIENCE:

11.4.1. The online program has a primary objective to make quality forensic education easily accessible by:

11.4.2. Facilitating distance learning for students interested in forensic science, living in different parts of India, with limited funds and / or access to good college level forensic programs:

11.4.2.1. Providing students interested in careers in forensic science a basic understanding of crime scene related forensic science practice, while they are studying other subjects at the graduate / post graduate level.

11. COLLEGE SHORT-TERM COURSES

11.4.2.2. Familiarizing law enforcement professionals and law students with a basic understanding of forensic sciences, while allowing them the flexibility of a non-classroom teaching mode

11.4.3. Course Content

1. An Introduction to Forensic Science
2. Ethics and Research Methods
3. Understanding the Indian Police and Legal System
4. Crime Scene Processing & Investigation Techniques
5. Forensic Instrumentation Techniques & Applications
6. Impression Evidence
7. Biological Evidence - Types, Handling & Analysis
8. Medical Jurisprudence
9. Role of Forensic Science in Counter-terrorism
10. Emerging Trends in Forensic Science

11.4.4. **Eligibility Criteria:** Minimum HSC certificate or equivalent.

11.4.5. **Duration:** 6 Months (twice a year)

11.4.6. Fees

Course Fees: Rs. 15,000/- Demand Draft, drawn in favour of:
The Bombay St. Xavier's College Society

Processing Charges:

Rs. 500/- (*by cash for domestic students*)

Rs. 1000/- (*by cash for international students*)

Note: (Online Payment options also available)

11.4.7. Application forms available on the College website

Xaviers.edu [CLICK ON Courses and admissions](#) [CLICK ON Online Certificate Program in Forensic Science](#)

11.4.8. Contact Details:

1. Program Facilitator: Dr. Pushpa Sinkar: Boardline: (022)22620662,
Ext 355; pushpa.sinkar@xaviers.edu
2. Faculty & Administrator: Ms. Alethea Vaz: alethea.vaz@xaviers.edu
3. Program Co-ordinator & Faculty: Ms. Riva Pocha;
riva.pocha@xaviers.edu
4. Faculty - Ms. Sejal Gupta: sejal.gupta@xaviers.edu

11. COLLEGE SHORT-TERM COURSES

11.5. DIPLOMA IN GEMMOLOGY

11.5.1. The Gemmology course has been specifically designed for anyone who may be interested in the study of gems and minerals. This three months course includes theory and practical hands on training. It covers a wide variety of gems commonly encountered in the gem and jewellery market like Rubies, Sapphires, Amethysts, Topaz, Quartz, Pearls etc. including some rare gemstones too.

11.5.2. Starting from the rough 'mineral' the course goes right up to teaching the fundamental character of gems and the most modern techniques used for their identification. This course is designed for persons interested in jewellery designing, sales professionals or making one a more confident buyer.

11.5.3. **Duration :** 3 months

11.5.4. **Timings:** This is an evening course and classes are held from Monday to Friday for 1½ hour duration. Date of commencement is end June.

11.5.5. **Fees:** Rs. 39,326

11.1.1. **Contact Details:** Dr Pravin Henriques or College Website

11.2. CERTIFICATE COURSE IN PRACTICAL GEM APPRECIATION AND IDENTIFICATION

11.2.1. This 20-hour, one month (evening) certificate course is designed to widen the knowledge of anyone interested in gemstones. It is particularly recommended for the consumer who wishes to make informed decisions when purchasing fine gemstones. It stresses the "how to" of gem identification. Learning basic instrumentation will show you how a gemologist can distinguish between natural, synthetic and imitation gems. Gem testing instruments are provided, but students should have their own pocket instruments.

11.2.2. **Duration:** One month (20 hours)

11.2.3. **Timings:** Evening

11.2.4. **Fees:** Rs. 11,236

11.2.5. **Contact Details:** Dr Pravin Henriques or College Website

11. COLLEGE SHORT-TERM COURSES

11.3. POST GRADUATE DIPLOMA IN COUNSELLING PSYCHOLOGY (XICP):

11.3.1. The Course aims at creating well-trained counsellors who can effectively tackle the increasing societal stress-related problems.

11.3.2. This Practicum-based Diploma has 7 Courses (3 credits each) covered in 3 trimesters (July of current academic year to March of subsequent academic year) (with breaks for Diwali and Christmas).

11.3.2.1. There is a **compulsory** supervised practicum in career counseling in the month of April. Career / Psychometric tests are conducted from 8.00 a.m. to 12.30 p.m. on two days and the results are given out on the third day. Counsellors (Students) are requested to be at the XICP for the practicum from 7.45 a.m. to 3.00 p.m. on both these days to administer the tests and from 8.00 a.m. to 9.00 a.m. on the 3rd day for a report-giving session with the parents and clients. Students are encouraged to take on clients while the course is on and discuss their cases in class. It is mandatory for students to go through personal counseling themselves while they are doing the course. Students have to work for about of 10 hours at any Old Age or Geriatric Care Home.

11.3.3. **Lecture Sessions:** Mondays, Wednesdays and Fridays (5.00 pm to 8.00 pm) in the College Campus. Regular attendance, class participation and submission of assignments are mandatory.

11.3.4. **Eligibility:** P.G. Degree in Psychology, Social Work or Human Development. Special Educators are also eligible.

11.3.5. **Number of Seats:** 25. Applications are invited through a form on the College website.

11.3.6. List of Courses Offered:

CPP 01 Micro-counselling

CPP 02 Principles and techniques of counselling process

CPP 03 Development across the lifespan

CPP 04 Psychopathology

CPP 05 Personality psychology & contemporary psychotherapies

CPP 06 Career psychology

CPP 07 Group psychological tests

CPP 08 Practicum in counselling

11.3.7. **Contact Details:** Ms Sujata Abraham or College Website

11. COLLEGE SHORT-TERM COURSES

11.4. CERTIFICATE COURSES IN ANCIENT INDIAN HISTORY, CULTURE AND ARCHAEOLOGY

11.4.1. Conducted by the Department of Ancient Indian Culture. For further details please check the College Website. These courses have been designed to develop appropriate talents of students having interests in the field of Ancient Indian History, Culture and Archaeology. Applicants could join for any number of the four courses offered.

11.4.2. Eligibility: This course is open to students of any faculty and the applicants could be completing either an Under-Graduation or a Post-Graduation Degree.

11.4.3. Duration: 3 months (From last week of July).

11.4.4. Timings: Evenings, once a week, as per the AIHCA MA Time Table

11.4.5. Fees : Rs 1000 per Course

11.4.6. Course Description:

11.4.6.1. Epigraphy and Numismatics of Ancient India: This course introduces the various scripts used in Ancient India and the role of coins in the Indian context. Students will be taught three ancient scripts: Brahmi, Kharoshti and Persian.

11.4.6.2. History of Performing Arts & Theatre in Ancient India: This course is designed to enlighten students about the synergy between fluid and static arts and thus broaden their horizon and innate understanding this subject.

11.4.6.3. Maritime Heritage of Ancient India: This course helps in understanding the maritime tradition that existed in India from the proto-historic period.

11.4.6.4. Brief study of the Comparative Mythology of the World: Various mythologies of world civilizations are classified. A comparative analysis of Indian and other world mythologies is also dealt with.

11.4.6.5. Basic Elements of Archaeology: This course helps in understanding the change from traditional archaeology to new archaeology, its relations with sciences, explorations and excavation techniques with field visits.

11.4.6.6. Contact Details: Dr Anita Rane-Kothare or College Website

12. TEACHING FACULTY

Keys: * = Recognized by Univ. of Mumbai for PG teaching at M.A., M.Sc., M.Com.

+ = As Research Guides for Ph.D.

@ = Honorary

12.1. FACULTY OF ARTS

12.1.1. DEPARTMENT OF ANCIENT INDIAN HISTORY, CULTURE & ARCHEOLOGY

- + * Ms. Anita Rane-Kothare, M.A. Dip. Pali. Ph.D. Assoc. Prof. & Head of Dept.
- * Ms. Radha Kumar, M.A., Ph.D. Assoc. Prof.

12.1.2. DEPARTMENT OF COMMERCE (FOR ARTS)

- Mr. Sanjiv P. Jhaveri, M.Com., F.C.A. Assoc. Prof. (Part-time)
- Ms. Suvaiba Pirani, M.Com., Ph.D. Asst. Prof.

12.1.3. DEPARTMENT OF ECONOMICS

- * Ms. Aditi P. Sawant, M.A., Ph.D. Asst. Prof. & Head of Dept.
- * Mr. Baptist A. Menezes, M.A., Ph.D. **Principal**
- Ms. Manali Pawar, M.A. Asst. Prof.
- Ms. Aparna Kulkarni, M.A. Asst. Prof.
- Mr. Rahul Menon, M.A., M.Phil. Asst. Prof.

12.1.4. DEPARTMENT OF ENGLISH

- Ms. Pearl Pastakia, M.A., M.Phil., Ph. D Assoc. Prof. & Head of Dept.
- Ms. Rashmi Lee George, M.A. Asst. Prof.
- Ms. Prasita Mukherjee, M.A., Ph.D. Asst. Prof.

12.1.5. DEPARTMENT OF FRENCH

- Ms. Alpana. Palkhiwale, M.A. Asst. Prof. & Prof.-In-Charge

12.1.6. DEPARTMENT OF HINDI

- + * Ms. Asha NaithaniDayama, M.A., Ph.D., D.H.E. Assoc. Prof. & Prof.-in-Charge

12.1.7. DEPARTMENT OF HISTORY

- * Mr. Avkash D. Jadhav, M.A. Assoc. Prof. (On FIP Leave)
- Ms. Kaizeen Jehangir, M.A. Asst. Prof. (On Leave Vacancy)

12.1.8. DEPARTMENT OF POLITICAL SCIENCE

- Ms. Pratiba Naitthani, M.A., B.Ed., Ph.D. Asst. Prof. & Head of Dept.
- Ms. Shazia Shaikh, M.A. Asst. Prof.

12.1.9. DEPARTMENT OF PSYCHOLOGY

- Ms. Ruby Pavri, M.A., B.Ed. Assoc. Prof.& Head of Dept.
- Ms. Linda Dhakul, M.A., B.Ed. Asst. Prof.
- Bro. Dean Fernandes S.J., M.A. Asst. Prof. (On Leave)
- Ms. Karen Almeida, M.A. Asst. Prof. (On Leave Vacancy)

12. TEACHING FACULTY

12.1.10. DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Mr. Sam Taraporevala, M.A., Ph.D., D.H.R.M. Assoc. Prof. & Head of Dept.
Ms. Madhuri Rajjada, M.A., M.L.S. Assoc. Prof. & Vice-Principal (Arts)
Ms. Pranoti Chirmuley, M.A., M.Phil, Ph.D. Asst. Prof.
Ms. Radhika Rani, M.A., M.Phil. Asst. Prof.

12.1.11. DEPARTMENT OF MASS MEDIA

Ms. S.P. Periyannayagi, B.Com., MBA, M.Phil. Asst. Prof. & Head of Dept.
Ms. Akshara Jadhav, M.A., PGJMC Asst. Prof.
Mr. Joseph Aloysius R., M.Sc. Media Comm. Asst. Prof.

12.1.12. DEPARTMENT OF PUBLIC POLICY

Mr. Baptist A. Menezes, M.A. Ph.D. Principal & Head of Dept.
Ms. Nandini Naik, M.A., M.Phil. Asst. Prof.
Mr. Awanish Kumar, M.A., M.Phil. Asst. Prof.

12.1.13. DEPARTMENT OF VOCATIONAL STUDIES -TOURISM

Ms. Radhika Rani, M.A., M.Phil. Asst. Prof. & Head of Dept.

12.2. FACULTY OF SCIENCE

12.2.1. DEPARTMENT OF BOTANY

+* Mr. Rajendra D. Shinde, M.Sc., Ph.D. Assoc. Prof. & Head of Dept.
* Mr. Kevin J. D'Cruz, M.Sc. Assoc. Prof.
* Mr. Alok Gude, M.Sc. Asst. Prof.
Ms. Vijaya Lobo, M.Sc., Ph.D. Asst. Prof.
Mr. Manek Mistry, M.Sc. Ph.D. Asst. Prof.

12.2.2. DEPARTMENT OF CHEMISTRY

+* Mr. Freddy H. Havaladar, M.Sc., Ph.D. Prof. & Head of Dept.
* Ms. Dionysia L. M. Coutinho, M.Sc., Ph.D. Assoc. Prof.
* Ms. Gulshan Shaikh, M.Sc., D.H.E., Ph.D. Assoc. Prof. &
Vice Principal (Academic Improvement)
* Fr. Roy J.J. Pereira, S.J. M.Sc., Ph.D. Asst. Prof.
* Mr. Bhagavat D. Bonde, M.Sc., Ph.D. Assoc. Prof.
Mr. Marazban S. Kotwal, M.Sc. Assoc. Prof.
* Ms. Ashma Aggarwal, M.Sc., Ph.D. Asst. Prof.
Ms. Geeta N. Kotian, M.Sc., Ph.D. Asst. Prof.
Ms. Saima Shaikh, M.Sc. Asst. Prof.
Ms. Abhilasha Jain, M.Sc., Ph.D. Asst. Prof.
* Mr. Pralhad V. Rege, M.Sc., Ph.D. Asst. Prof.

12. TEACHING FACULTY

12.2.3. DEPARTMENT OF GEOLOGY

- +* Mr. Pravin Henriques, M.Sc., Ph.D.
Assoc. Prof. & Head of Dept. (In-Charge)
- +* Mr. Hrishikesh P. Samant, M.Sc., M.Tech., Ph.D.
Assoc. Prof. & Vice-Principal (Science)
- +* Mr. Goutam Bandopadhyay, M.Sc. Ph.D. Asst. Prof.
- * Mr. Bobby P. Mathew, M.Sc., Ph.D. Asst. Prof.
- * Mr. Ashwin Pundalik, M.Sc., Ph.D. Asst. Prof.
- Mr. John D'Souza, M.Sc. Asst. Prof.
- Ms. Shweta Gurav, M.Sc., Ph.D. Asst. Prof.

12.2.4. DEPARTMENT OF LIFE SCIENCES AND BIOCHEMISTRY

- * Ms. Nandita B. Mangalore, M.Sc., M.Phil., Ph.D.
Assoc. Prof. & Head of Dept.
- * Ms. Seema Das, M.Sc., Ph.D. Assoc. Prof. (On Leave)
- * Mr. Prashant S. Ratnaparkhi, M.Sc. Assoc. Prof. (On FIP Leave)
- * Ms. PriyaSundarrajan, M.Sc., Ph.D. Assoc. Prof.
- * Ms. Sangeeta R. Shetty, M.Sc. Asst. Prof.
- Ms. Radhika Tendulkar, M.Sc., Ph.D. Asst. Prof.
- Ms. Manasi K. Kanuga, M.Sc., Ph.D. Asst. Prof.
- Ms. Maya S. Murdeshwar, M.Sc., Ph.D. Asst. Prof.
- Mr. Binoj Kutty, M.Sc., Ph.D. Asst. Prof.
- Mr. Bhaskar Saha, M.Sc., Ph.D. Asst. Prof.
- +* Ms. Radiya Pacha-Gupta, M.Sc., Ph.D. Assoc. Prof. (On Leave Vacancy)

12.2.5. DEPARTMENT OF MATHEMATICS

- Ms. Meenal Kolkar, M.Sc., M.Phil. Asst. Prof.
- * Mr. Ashok Bingi, M.Sc., Ph.D. Asst. Prof.
- Mr. Aditya Garg, M.Sc. Asst. Prof.

12.2.6. DEPARTMENT OF MICROBIOLOGY

- * Ms. Miriam Stewart, M.Sc. Assoc. Prof. & Head of Dept.
- * Ms. Sangeeta Chavan, M.Sc., M.Phil. Assoc. Prof.
- * Ms. Karuna R. Gokarn, M.Sc. Assoc. Prof.
- Ms. Aparna Talekar M.Sc., Ph.D. Asst. Prof.
- Ms. Pampi Chakraborty, M.Sc., Ph.D. Asst. Prof.

12.2.7. DEPARTMENT OF PHYSICS

- * Ms. Shyamala P. Bodhane, M.Sc., M.Phil., Ph.D.
Assoc. Prof. & Head of Dept.
- * Ms. K. Vedesankari, M.Sc., Ph.D. Assoc. Prof.
- Ms. Jyoti T. Singh, M.Sc., Ph.D. Assoc. Prof.
- Mr. Rajesh Singh, M.Sc. Asst. Prof.
- Mr. Ajay Yadav, M.Sc. Asst. Prof.
- Mr. Rohan Jadhav, M.Sc., Ph.D. Asst. Prof.
- Ms. Leena Joshi, M.Sc., Ph.D. Asst. Prof.
- * Mr. Radhekrishna Dubey, M.Sc., Ph.D. Asst. Prof.

12. TEACHING FACULTY

12.2.8. DEPARTMENT OF STATISTICS

* Ms. Myrtle C. Fernandes, M.Sc.	Assoc. Prof. & Head of Dept.
* Ms. Pooja Ochaney, M.Sc.	Assoc. Prof.
* Ms. Ayesha Dias, M.Sc.	Assoc. Prof.
* Mr. Saju V. George, M.Sc., M.Phil.	Assoc. Prof.
* Ms. S. Annapurna, M.Sc., D.C.S.T., D.O.R.M.	Assoc. Prof.
* Ms. Piyali Unnikrishnan, M.Sc.	Assoc. Prof.

12.2.9. DEPARTMENT OF ZOOLOGY

Ms. Smita Krishnan, M.Sc., Ph.D.	Assoc. Prof. & Head of Dept.
+ Ms. Madhuri P. Hambarde, M.Sc., Ph.D.	Assoc. Prof.
Ms. Pushpa U. Sinkar, M.Sc., Ph.D.	Assoc. Prof.
Mr. Conrad Cabral, M.Sc.	Asst. Prof.
Ms. Sujata Deshpande, M.Sc., Ph.D.	Asst. Prof.

12.2.10. DEPARTMENT OF BIOTECHNOLOGY

Ms. Shiney Peter, M.Sc., Ph.D.	Asst. Prof. & Head of Dept.
Ms. Norine D'Souza, M.Sc.	Asst. Prof.
Mr. Biswa Chatterji M.Sc., Ph.D.	Asst. Prof.

12.2.11. DEPARTMENT OF INFORMATION TECHNOLOGY

Mr. Thomas Roy, M.C.A.	Asst. Prof. & Head of Dept.
Mr. Subhash Kumar, M.C.A., M.Phil.	Asst. Prof.
Ms. Lydia Fernandes M.Sc.	Asst. Prof.
Ms. Rachana Pandey, M.Sc., B.Ed.	Asst. Prof.

12.2.12. DEPARTMENT OF VOCATIONAL STUDIES – (SOFTWARE DEVELOPMENT)

Ms. Jyoti Singh, M.Sc., Ph.D.	Assoc. Prof. & Head of Dept.
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12.3. FACULTY OF COMMERCE

12.3.1. DEPARTMENT OF MANAGEMENT STUDIES

Ms. Soni George Tharakan, B.Sc. Agriculture (Hons), MMS	Asst. Prof. & Head of Dept.
Ms. Neelam Shetty, M.Com., PGDBA, M.Phil.	Asst. Prof.
Mr. Pritesh Arte, M.Com., LLB	Asst. Prof.

12.3.2. DEPARTMENT OF COMMERCE AND ACCOUNTS

Fr. Errol Fernandes, S.J. M.Com., M.Th.	Asst. Prof. & Vice-Principal (Commerce)
Mr. Rajinder Singh Saluja, M.Sc., M.Phil.	Assoc. Prof.
Mr. Rajesh N. Vora, M.Com., C.A.	Asst. Prof.
+* Mr. Arvind Dhond, M.Com., M.Phil., MFM., PGDFM., Ph.D.	Assoc. Prof.
Mr. Sanjay Parab, M.Com, CS.	Asst. Prof. (On FIP Leave)
Fr. Conrad Pessa, S.J., M.Com., ICWA, CS, LLB, Ph.D.	Asst. Prof.
Mr. Syed Shakeel Hussain, L.L.M.	Asst. Prof. (Part-time)

12. TEACHING FACULTY

Mr. Kamaji Bokare, M.A.	Asst. Prof.
Mr. Jotiram J. Gaikwad, M.A., M.Phil.	Asst. Prof.
Mr. Navneet Sangha, M.Com.	Asst. Prof.(On Leave Vacancy)

12.4. RESEARCH DEPARTMENTS

12.4.1. HERAS INSTITUTE OF INDIAN HISTORY & CULTURE

* Ms. Joan Dias, M.A., Ph.D.	Director
@+* Sr. Anila Varghese, M.A., Ph.D.	Research Guide
+* Ms. Sonali Pednekar, M.A., Ph.D.	Research Guide
+* Ms. Anita Rane-Kothare, M.A. Dip. Pali. Ph.D.	Research Guide
* Ms. Radha Kumar, M.A., Ph.D.	Assoc. Prof.
Ms. Shipla Chheda, M.A. (AIC), M.A. (Philosophy)	Secretary & Curator

12.4.2. BLATTER HERBARIUM

+* Mr. Rajendra D. Shinde, M.Sc., Ph.D.	Director & Research Guide
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12.4.3. CAIUS LABORATORY FOR INTER DISCIPLINARY RESEARCH

* Ms. Priya Sundarrajan, M.Sc., Ph.D.	Director
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12.4.4. NADKARNY SACASA RESEARCH LABORATORY

Fr. Roy J.J. Pereira, S.J. M.Sc., Ph.D.	Director
+* Prof. Freddy H. Halvaldar, M.Sc., Ph.D.	Research Guide
* Ms. Dionysia Coutinho, M.Sc., Ph. D.	Research Guide

12.4.5. DEPARTMENT OF AVESTA PAHLAVI

@+* Mr. K. M. Dastoor, M.A. Ph.D.
@ * Mr. R. P. Karanjia, M.A., Ph.D.
@ * Mr. P. M. Bajan, M.A. Ph.D.

12.5. DEPARTMENT OF INTER-RELIGIOUS STUDIES

Fr. Prashant Olalekar S.J.	Director
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12.6. LANGUAGE LAB.

Ms. Rashmi Mehta, M.A.	Instructor
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13. NON-TEACHING STAFF

13. NON – TEACHING STAFF

13.1. GENERAL OFFICE:

1	Ms. Maria Carrasco	Superintendent (Commerce Section)
2	Ms. Grizel A. Menezes	Stenographer
3	Mr. Bipin B. Patil	Office Assistant
4	Mr. Vincent I. Pereira	Office Assistant
5	Mr. Anand Alphanso	Office Assistant
6	Ms. Supriya R. Saraf	Office Assistant
7	Ms. Flavia D'Mello	Office Assistant
8	Ms. Shainy O. Lopes	Office Assistant
9	Ms. Delina B. Lopes	Office Assistant
10	Ms. Shefali Fernandes	Office Assistant
11	Ms. Namrata Naik	Office Assistant
12	Ms. Shivali Mayekar	Office Assistant

13.2. TREASURER'S OFFICE:

1	Dr. (Fr.) Conrad Pessa, S.J.	Treasurer
2	Mr. Peter D'Monte	Head Clerk
3	Mr. Vijayrao Thapala	Senior Office Assistant
4	Mr. Dixon F. Colaco	Senior Office Assistant
5	Mr. David Patil	Office Assistant
6	Mr. Ganesh Padrat	Office Assistant
7	Mr. Sameer Padrat	Office Assistant
8	Ms. Shweta Jadhav	Office Assistant
9	Mr. Rocky Vaz	Office Assistant
10	Ms. Snehal Kamat	Office Assistant
11	Ms. Rutika Gawade	Office Assistant

13. NON-TEACHING STAFF

13.3. LIBRARY:

1	Ms. Medha Taskar	Librarian
2	Mr. Vivek Tambe	Assistant Librarian
3	Mr. Ashok G. Rambade	Senior Library Assistant
4	Mr. Bharat Hejamadi	Library Assistant
5	Ms. Sonali Paradkar	Library Assistant
6	Mr. Jay Thorat	Library Assistant
7	Mr. Caitano F. Simoes	Library Attendant
8	Mr. Sudhakar Damle	Library Attendant
9	Mr. Rajaram B. Agre	Library Attendant
10	Mr. Peter A. Fernandes	Library Attendant
11	Mr. Lawrence D'costa	Library Attendant (Commerce Section)
12	Mr. Julio Pereira	Library Attendant
13	Mr. Truman Borges	Library Attendant (Commerce Section)
14	Mr. Kishore C. Chaphe	Library Attendant
15	Mr. Prakash G. Rambade	Library Attendant
16	Mr. Deepak S. Chowgule	Library Attendant
17	Mr. Uttam Jadhav	Library Attendant
18	Mr. Adinath Raut	Library Attendant

13.4. LABORATORY ASSISTANTS:

1	Mr. Rajdhar Dabhade	6	Mr. Gurunath Dhuri
2	Mr. Vijay A. Gurav	7	Mr. Anthony Thomas
3	Mr. Prakash Dandge	8	Mr. Glesson Dias
4	Mr. Manohar Veliye	9	Mr. Sanjay S. Karambele
5	Mr. Elias Joseph Abreo	10	Mr. Sandeep Kelwadkar

13. NON-TEACHING STAFF

13.5. LABORATORY ATTENDANTS:

1	Mr. Pandharinath Badambe	20	Mr. landas Sydney Bangera
2	Mr. Shantaram Tamankar	21	Mr. Sanjay I. Chaudhary
3	Mr. Suresh R. Rambade	22	Mr. Sudhakar D. Kolge
4	Mr. Hanumanth Chowgule	23	Mr. Agnelo A. Fargose
5	Mr. Ramchandra Chandurkar	24	Mr. Jagdish B. Guldekar
6	Mr. Subhash A. Kalekar	25	Mr. Uddhav E. Patole
7	Mr. Laxman Dajee Gurav	26	Mr. Dayanand Kumbhar
8	Mr. Ashok Hari Agre	27	Mr. Sandeep P. Pawar
9	Mr. Devchandra K. Gurav	28	Mr. Sandeep Rambade
10	Mr. Prakash Agre	29	Mr. Sandip I. Patil
11	Mr. Sandeep B. Berde	30	Mr. Aatish Shirke
12	Mr. Chandrakant Chandurkar	31	Mr. Uttam Patil
13	Mr. Ashwin W. Parmar	32	Mr. Sachin Bhure
14	Mr. Ramdas Y. Gawde	33	Mr. Macfedyan Noronha
15	Mr. Victor G. D'souza	34	Mr. Kishore Sonavane
16	Mr. Melcome R. Abreu	35	Mr. David Foss
17	Mr. Rajesh N. Athawale	36	Mr. Kishore Arbune
18	Mr. Sanjay S. Geliye	37	Mr. Nitin Lokhande
19	Mr. Simon Joseph	38	Mr. Umesh Chavan

13.6. PEONS:

1	Mr. Sudhakar Gurav	15	Mr. Yogesh M. Gade (Comm.)
2	Mr. Bajju Solanki	16	Mr. Amol Lohar
3	Mr. Cajetan Fernandes	17	Mr. Vaibhav Patil
4	Mr. Prakash S. Chougule	18	Mr. Uday Mane
5	Mr. Santosh K. Zeple	19	Mr. Uttam Ghatkar
6	Mr. Arun Jadhav	20	Mr. Rajan Gurav
7	Mr. Devid S. Ghadge	21	Mr. Amol Shinde
8	Mr. Kevin N. D'Souza	22	Mr. Shishir Khedekar
9	Mr. Avitkumar Mangale	23	Mr. Mahadev Sonule
10	Mr. Avinash Agre	24	Mr. Kunal Mahida
11	Mr. Bharat Koli	25	Mr. Prabhanjan Gite
12	Mr. Deepak Parit	26	Mr. Vipin Nam
13	Mr. Yogesh Enamdar	27	Mr. Gangaram Sawant
14	Mr. Santosh Sangale		

13. NON-TEACHING STAFF

13.7. EXAMINATION CENTRE:

- | | | |
|---|---------------------|-----------------------------|
| 1 | Mr. Marazban Kotwal | College Controller Of Exams |
| 2 | Dr. H. E. Master | Officer On Special Duty |
| 3 | Ms. Fiona R. Crasto | Office Assistant |

13.8. KNOWLEDGE CENTRE:

- | | | |
|---|---------------------|---------------------|
| 1 | Mr. Kevin D'Cruz | Director |
| 2 | Ms. Khyati Bhora | Web Designer |
| 3 | Ms. Nilam S. Jadhav | Office Assistant |
| 4 | Mr. Swapnil Bagwe | Technical Assistant |
| 5 | Mr. Yogendra Mohite | Technical Assistant |

13.9. MULTI-MEDIA OPERATORS:

- | | | |
|---|---------------------|------------|
| 1 | Mr. Deb Shankar Das | Technician |
| 2 | Mr. Francis Kadam | Technician |
| 3 | Mr. Dinesh Mohite | Technician |

13.10. CAMPUS MAINTENANCE STAFF :

- | | | |
|----|----------------------|-------------------------------------|
| 1 | Mr. Babuji George | Administrator |
| 2 | Mr. Adrian Menezes | Admin. Assistant |
| 3 | Mr. Santosh Chavan | Office Attendant |
| 4 | Ms. Seema Sisodiya | Telephone Operator-Cum-Receptionist |
| 5 | Ms. Sunita Misquitta | Telephone Operator-Cum-Receptionist |
| 6 | Mr. Gulab Sharma | Carpenter |
| 7 | Mr. Vijay Sharma | Carpenter |
| 8 | Mr. Sanjay Sawant | Electrician |
| 9 | Mr. Mayur Agre | Assistant |
| 10 | Mr. Narayan Rambade | Gardener |
| 11 | Mr. Pravin Waghela | Peon |

13. NON-TEACHING STAFF

13.11. RESEARCH LAB. SUPPORT STAFF:

- | | | |
|---|------------------------|---------------------------------|
| 1 | Mr. Pravin Kale | Asst. Curator-Blatter Herbarium |
| 2 | Mr. Prashant Manchekar | Attendant, Caius Lab. |
| 3 | Mr. Rajesh Mahadik | Attendant, Biotechnology Lab. |
| 4 | Mr. Melvin Fernandes | Maintenance Engineer |

13.12. SOCIAL INVOLVEMENT PROGRAMME:

- | | | |
|---|----------------------|-------------------------|
| 1 | Dr. B. A. Menezes | Principal & Coordinator |
| 2 | Ms. Jenipher D'souza | Social Worker |
| 3 | Ms. Roshen Thomas | Social Worker |
| 4 | Ms. Ankita Kulaye | Office Assistant |

13.13. HOSTEL:

- | | | |
|---|-----------------------|--------------------|
| 1 | Dr. B. A. Menezes | Principal & Warden |
| 2 | Mr. Joseph Aloysius | Assistant Warden |
| 3 | Mr. Karan Bahadur | Receptionist |
| 4 | Mr. Ravindra Yadav | Receptionist |
| 5 | Mr. Champion Bhandari | Receptionist |
| 6 | Mr. Kamal Maji | Peon |

13.14. HERAS:

- | | | |
|---|----------------------|-----------------|
| 1 | Mr. Shannon Mendonca | Asst. Librarian |
| 2 | Mr. Roshan D'Souza | Peon |

13.15. PLACEMENT CENTRE:

- | | | |
|---|--------------------------|-------------------|
| 1 | Mr. Dominic C. Fernandes | Placement Officer |
|---|--------------------------|-------------------|

13.16. INDIAN MUSIC GROUP:

- | | | |
|---|-----------------------|------------------|
| 1 | Ms. Luiza Albuquerque | Office Assistant |
|---|-----------------------|------------------|

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

14.1. Introduction: For St. Xavier's College, like any other Jesuit Institution, discipline goes beyond the mere adherence to rules and regulations. Discipline is looked upon as a means to inculcate into one's being the spirit of integrity and academic honesty, respect for the dignity and rights of individuals and deference for public and personal property.

Every Staff member of the College, under the leadership of the College Discipline Committee (CDC), is expected to nurture the cultivation of such discipline within the campus. Thus, staff members, on noticing some disciplinary infringement, are authorized to intervene and take appropriate action in consultation the CDC. The specific Rules & Regulations that this College enforces are:

14.1.1. Government Regulations:

14.1.1.1. Ragging, of whatever kind, is strictly forbidden and will result in the dismissal of the student who rags, even if the act is committed outside the college campus. As per Supreme Court order dated May 2007, the College authorities may also file an F.I.R. with the police, if a case of ragging is reported / detected.

14.1.1.2. The possession and / or consumption of drugs, cigarettes or alcohol on campus will lead to immediate suspension or dismissal of that student - at the discretion of the Principal. Physical violence also attracts the same penalty. In both cases the College may file an F.I.R. with the police.

14.1.2. College Identity Card (IDC)

14.1.2.1. Every student is required to display the issued IDC at the point of entry and whenever in the college campus.

14.1.2.2. A fine of Rs 300 (which will go towards the Students' Beneficiary Fund) will be imposed on any student who is found (by a teaching staff member) without the IDC being displayed, when on the campus.

14.1.2.3. The use of the IDC of another student and the lending of an IDC to another are unacceptable and will attract suspension from College.

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

14.1.2.4. If the issued IDC is lost, the student is expected to register the loss with the Mumbai Police. Only against the Police Certificate will the student be issued a temporary IDC (for 15 days). After the lapse of 15 days, a proper duplicate IDC will be issued (provided that there are more than 2 months of the academic year still remaining). The student would have to pay to get the temporary IDC (Rs 100) as well as the duplicate IDC (Rs 500) – this money will go towards the Students' Beneficiary Fund.

14.1.3. Use of Facilities:

14.1.3.1. Decorum in the Academic Environs: Students should not disturb ongoing lectures if they arrive early for their lecture or while walking in the corridors when lectures are on, or while they await the lecturer in the classroom. Cleanliness in the classroom should be the responsibility of students who occupy those spaces. They are expected to inform the College Cleanliness Committee or the College Administrative Office if the classroom was untidy when they entered it. Switching off the classroom lights and fans when not in use is a good green practice.

14.1.3.2. In the College **Laboratories** please closely follow the instructions of the Staff-in-Charge. Strict action will be taken against those found flouting the laboratory rules.

14.1.3.3. The **Class Notice-Boards** must be visited by every student every working day to check for notices and other updates. The onus of updating one's self vis-à-vis notices rests with the students.

14.1.3.4. In the **Canteen**, students are expected to return the used plates and cutlery into the basket kept for that purpose. Similarly, used paper cups and plates and empty packets and bottles should be dumped into the bin kept for that purpose. Keeping the Canteen clean and tidy (and so hygienic) is also the responsibility of the students. Please avoid wasting food !!

14.1.3.5. Spaces for the Consumption of Eatables and Beverages have to be limited to the Canteen, the 'Woods' and the Students' Common Rooms. This is needed to ensure that rats and other pests are not attracted into the

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

academic and administrative spaces of the campus. This would not only render the campus safe & healthy but also clean & tidy.

14.1.3.6. The College **Gym** is available to all students during the time announced by the Sports Director. Those using the gym facilities are urged to use them properly and judiciously. Eatables are strictly prohibited in the gym. Students are encouraged to participate in the various sports tournaments that college organizes.

14.1.3.7. The College **Library** is a place of study and research. Please read the Library Rules (Section 14.2, page 134).

14.1.3.8. Students' Common Rooms must be kept tidy so as to be pleasant to be in. The **students' lockers** have to be hired through the Treasurer's Office and then used appropriately and handled with care. Remember these rooms are kept closed on Sundays and holidays.

14.1.3.9. Toilets are expected to be used in an hygienic manner. Users are expected to shut the taps after use as well as if they find them left open or dripping. It would save an important natural resource if leakages are reported to the College Cleanliness Committee or Administrative Office.

14.1.4. Use of Unfair Means at Exams: Any student detected using unfair means (or even being in possession of a mobile / electronic gadget or of other material which could be used for copying) during tests or exams will have to face the Unfair Means Committee constituted by the College. If the Committee finds the individual guilty, he / she will be given zero for that course or for all exams. Even those found abetting such behaviour will be given a similar penalty.

14.1.5. Mobile Phone and other Electronic Gadgets:

14.1.5.1. The use of mobile phones and other electronic gadgets for any purpose during lectures and practicals is not allowed, unless the lecturer has permitted the use of the said gadgets for furthering the quality of the lecture / discussion.

14.1.5.2. It is advisable that during lectures, such gadgets are kept in one's bag / pocket and not on / in the desk - this would minimize the possibility of losing these gadgets. If a

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

student is found using these gadgets during lectures his / her IDC would be confiscated and given to the Principal / Vice-Principal for further action (including a fine).

14.1.5.3. If a student reports the loss of such gadgets in the campus, that student would be advised to file a case of theft with the Police. However, if a lost gadget is found and given to the Principal, then the student who lost that property would have to pay a fine to get repossession of that item.

14.1.5.4. Students cannot wear smart watches during any examination. If the student is found with any electronic gadget (except a non-programmable calculator) during an examination, he / she will be immediately rusticated. He / she will be given a new answer booklet and will be permitted to attempt the exam. Subsequently, he / she will be required to appear before the Unfair Means Committee of the College.

14.1.6. College / Department Fests / Programmes have to be organized and executed under the supervision of either the Staff Committee appointed by the Principal or a faculty from the concerned department. The Principal must be kept informed about the content of these activities.

14.1.7. Women students should not remain on the College premises after 9.00 p.m. unless they are attending evening courses in the Commerce Section or in the other Institutes on campus or have explicit permission of the Principal to do so.

14.1.8. The Right to Dissent and the **Right to Resolve Conflict** through discussion and reason are acceptable means of protest. All protests should be routed through the Students' Council and should be governed by the Constitution of that Council. It is the Principal who ultimately decides if a protest flouts the College discipline.

14.1.9. Dress Code: Students are expected to wear clothes that contribute to the academic atmosphere necessary on an Indian College Campus. Accordingly, sleeveless or short tops, as well as short dresses, shorts & ripped jeans are considered inappropriate.

14.1.10. Class picnics or outings are not permitted by the College at all. Parents are therefore warned that the College authorities

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

do not assume any responsibility for picnics or outings organized by students on their own or by teachers in their personal capacity.

- 14.1.11. Undertakings:** At the time of admission, every student signs a declaration, on his / her Admission Form, that he /she will abide by all the Rules and Regulations of the College and will accept the decision of the Principal, in all matters, as final. He / She will also give an undertaking to accept the College Rules Under Autonomy, which, *inter alia*, provide for the non-granting of Terms.

14.2. LIBRARY RULES

- 14.2.1.** The College Library is open from 9.00 a.m. to 8.00 p.m. (Monday through Friday) and from 9.00 a.m. to 5.00 p.m. (Saturday) during the term. Vacation timings are different.
- 14.2.2.** In order to make use of the Library, students are required to wear their identity-card on their person at all times.
- 14.2.3.** All library services are provided only against valid Library Cards.
- 14.2.4.** Students are required to report loss of a book immediately to the Librarian in writing.
- 14.2.5.** No books or periodicals can be removed from the Library unless the loan has been registered at the Loan Counter.
- 14.2.6.** Readers must, on receiving a book, examine it, and report to the Library Assistant any damage found therein. If they fail to do so, they will be held responsible for any damage that may be detected later by the Library authorities.
- 14.2.7.** Books lost, damaged or defaced, must be paid for by the reader on whose name they were issued. The value of the books will be determined by the Librarian.
- 14.2.8.** All loans must be returned by the due date (or time). Overdue charges will be imposed on all books not returned in time. Students who repeatedly fail to return books on time may be denied the use of the Library altogether.
- 14.2.9.** All books must be returned on or before the last date of the academic year or the last date of the examination of the student, whichever is later.

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

- 14.2.10.** Students, who fail to return books borrowed from the Library at least one week prior to the declaration of results, will be declared as 'Library defaulters' and their results will be withheld until they get clearance from the Library.
- 14.2.11.** The Librarian reserves the right to recall any book or periodical at any time.
- 14.2.12.** Furniture must not be re-arranged and must be used only for its proper purpose. Please keep the Library clean.
- 14.2.13.** Disregard of Library rules, indiscipline and misbehaviour will render students liable to be refused access to the Library.
- 14.2.14.** Eating and drinking of beverages is forbidden in the Library.
- 14.2.15.** For library access as visitors, please contact the College Librarian.
- 14.2.16.** Silence should be observed in the Library at all times.

14.3. QUALITY MECHANISMS AND BEST PRACTICES

St Xavier's College, over the years and especially under autonomy, has developed and adopted certain quality mechanisms and best practices to enhance teaching-learning processes and bench-mark them to global academic standards. Following are the highlights of our Best Practices:

14.3.1. Teaching, Learning and Evaluation Processes:

- 14.3.1.1.** Annual syllabi review by the Department Faculty as well as by External Experts from industry and academia.
- 14.3.1.2.** The use of ICT in the teaching-learning process with the use of LCD facilities in all classrooms.
- 14.3.1.3.** Participative lectures, using the constructionist and not the banking philosophy of education.
- 14.3.1.4.** Special efforts at Inclusive Education through the XRCVC, disabled-friendly campus, sensitization of faculty to the needs of slow learners and scholarships for the disadvantaged through the Student Beneficiary Fund, et al.
- 14.3.1.5.** Creating study packs of essential readings, drawn from different sources, to cover the syllabus along with guided and critical study of these and further reference work.

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

- 14.3.1.6.** A 3-credit Cross Faculty Course for all students, to encourage inter-disciplinary learning.
 - 14.3.1.7.** The use of Blooms Taxonomy to evaluate Learning Objectives for the Teaching – Learning Process and for Question Paper Setting.
 - 14.3.1.8.** Using the Presentation / Assignment Evaluation Grid to ensure objective criteria for assessment.
 - 14.3.1.9.** Ensuring fairness in assessment by Bar Coding / Masking of Answer Papers before the assessment process begins. Also moderating assessed papers through External Examiners or Double-Blind Evaluation.
 - 14.3.1.10.** Giving feedback to students on their performance by displaying their assessed answer papers. Also allowing students to have a photocopy of the assessed answer paper and / or challenging evaluation of the assessed paper through the proper procedure.
 - 14.3.1.11.** Getting regular student feedback about faculty on the teaching-learning process through the Teacher Assessment Questionnaire (TAQ).
 - 14.3.1.12.** Enabling new faculty to settle in through in-house orientation programmes for them and offering them Faculty-Mentorship as well as sit-ins by the HoD.
- 14.3.2. Enquiry and Project-based learning Processes:**
- 14.3.2.1.** Conducting the Quest for Excellence Programme for the academically better students, consisting of 8 extra credits, earned over the 3 years, including an introduction to research. Also having courses under the Learning for Life Programme.
 - 14.3.2.2.** Organizing fieldtrips, industrial visits and guest lectures to make academics more experiential. Also encouraging students to take up Summer Internships / Projects for experience of industry and the corporate world.
 - 14.3.2.3.** Having yearly Department Seminars (usually at our Khandala Villa) to help students build up their confidence and skills at making academic presentations.

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

- 14.3.2.4.** The publication of yearly Department Journals for student articles on a theme and thereby making them adept in writing research papers and even in handling editorial tasks.
- 14.3.2.5.** Organizing regular Faculty Seminars and Workshops to upgrade their pedagogical skills and to help them evolve better methods and processes of teaching and learning.
- 14.3.2.6.** Supporting research among Faculty by helping them in applying for State, Central Government, UGC and University funding for minor and major research projects. Encouraging them to participate in Conferences and to serve as Resource Persons in other institutions.
- 14.3.2.7.** Offering infrastructure in the form of research facilities like the Heras Institute, Blatter Herbarium, NSRL and Caius.
- 14.3.2.8.** Use of 'Biosafety Guidelines' for Microbiological work in the College. These guidelines have been compiled by the Dept. of Microbiology and passed through the Bioscience Faculty involved in research and the members of the Institutional Biosafety Committee (IBSC) of the college.
- 14.3.2.9.** Publishing an annual peer-reviewed Research Journal by the Faculty.

14.3.3. Soft Skill Development and Collateral Programmes

- 14.3.3.1.** The mandatory Social Involvement Programme helps to conscientize students about social realities thereby provoking in them a consciousness to serve society.
- 14.3.3.2.** The development of language and soft-skills through the Language Lab, special communication skills courses, presentations as part of CIA and through participation in extra-curricular activities.
- 14.3.3.3.** Hosting a well-established Counselling Centre for Aptitude Testing and Career Guidance for students and Personal Counselling of students and parents.
- 14.3.3.4.** Mentoring of students by Faculty, in groups assigned to each of the latter.
- 14.3.3.5.** Establishing the Placement Cell to give training in the soft skills needed for Applications and Interviews and to

14. GENERAL RULES & GUIDELINES OF THE COLLEGE

facilitate interaction with the corporate world for Internships and Final Placements.

- 14.3.3.6. Offering international programmes to expand the horizons of our Faculty and Students and admitting foreign students to courses on the Campus to increase cultural diversity.
- 14.3.3.7. Interacting with parents for their intervention through parent-teacher meetings and through communication especially through the internet and website.

14.4. ANNUAL THEME

14.4.1. The theme for this academic year is: '**ENHANCING INCLUSION IN THE CAMPUS**'. In this context inclusion implies taking along all individuals making use of all resources (tangible and intangible) on the campus. The College therefore urges all stakeholders on the campus to:

- 14.4.1.1. Respect the talents and capacities of all those whom we encounter and engage with on campus.
- 14.4.1.2. Read and practice the content of the Government of India's 'Rights of Persons with Disability Act - 2016'.
- 14.4.1.3. Reach out to individuals living with one or more of the following challenges (as listed in the above Act):
Autism Spectrum Disorder, Blindness, Chronic Neurological Condition, Deaf, Haemophilia, Hearing Impaired, Intellectual Disability, Leprosy Cured, Language Disability, Locomotor Problems, Low Vision, Mental Illness, Multiple Disabilities, Multiple Sclerosis, Orthopedic Disability, Parkinson's Disease, Sickle Cell Disease, Slow Learning Ability, Specific Learning Disabilities, Speech Disability, Thalassemia.
- 14.4.1.4. Contribute to the welfare of all by participating in programmes and activities, within and beyond the campus, that foster inclusion.

15. COLLEGE STUDENT ACHIEVERS

RESULTS OF ST. XAVIER'S COLLEGE (AUTONOMOUS) MARCH '17

Students conferred Ph.D. Degree in 2016-17 (by University of Mumbai)

Research Scholar	Subject	Research Guide
Ms. Sweedal Cerejo	Botany	Dr. Rajendra Shinde
Mr. Rajdeo Inspector Singh	Botany	Dr. Rajendra Shinde
Mr. Ganesh Baban Mule	Chemistry	Prof. Freddy Havaladar
Fr. Roby Gonsalves	History	Dr. (Fr.) Joseph Velinkar SJ

STUDENT TOPPERS ON THE BASIS OF C.G.P.A.

NAME OF STUDENTS	C.G.P.A
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T.Y.B.A

Bhandhuli Abhijit Chattopadhyay	3.94
Sadhna Rajeev Naik	3.88
Raina Vaishanavi Nikhil Bhagat	3.88
Yashvi Sagar Shah	3.86

T.Y.B.Com

Kalyani Udaykumar Shinde	3.55
Sharmishtha Dinesh Pratap Singh	3.54
Anchal Rati Ram Navak Kumari	3.50

T.Y.B.M.M

Shweta Pradeep Bhutada (Journalism)	3.72
Rutwij Harshad Nakhwa (Journalism)	3.71
Sanyam Sanjay Nagpal (Advertising)	3.68

T.Y.B.M.S

Harshita Hanmandas Rathi	3.89
Jesline Jerome D'Souza	3.81
Jennifer Anthony D'Souza	3.79

T.Y.B.Sc

Aditya Munir Chalisehar	3.96
Mallika Vivek Talwar	3.92
Parshv Pankil Shah	3.92
Narasimhan Hamsa	3.91
Ankita Mitra	3.91

15. COLLEGE STUDENT ACHIEVERS

T.Y.B.Sc. – I.T

Mohit Mahendra Agrawal	3.86
Mayank Arun Kumar	3.67
Rajshekhar	3.66

M.A. (Ancient Indian History, Culture & Archaeology)

Mehvish Khalid Shaikh	3.69
Dharini Digvijay Chand	3.46
Deepika Ravi Iyer	3.23

M.A. (Public Policy)

Surbhi Bhatia	3.75
Sakina Hakimuddin Dhorajiwala	3.54
Jemimah Adelle Gomes	3.50

M.Sc. (Biotechnology)

Jueeli Gajanan Lad	3.83
Jyoti Shambhunath Vishwakarma	3.81
Junita Juvencio Desouza	3.75
Prachiti Prakash Prabhu	3.75

M.Sc. (Botany)

Nupoor Muralidhar Telawane	3.88
Saif Yusuf Khan	3.85
Snehal Ashish Unde	3.79

M.Sc. (Geology)

Karl Edmond Pereira	3.65
Denise Desmond D'Mello	3.59
Alan Mark Aranha	3.44

M.Sc. (Life Science)

Janhavi Jatin Damani	3.93
Nuriyyah Khozema Rassiwalla	3.64
Trisha Asim Roy	3.56

M.Sc. (Microbiology)

Sufiya Mohd Azam Ansari	3.88
Fleur Percival Fernandes	3.86
Shivpoojan Vishwanath Tiwari	3.84

16. COLLEGE CALENDAR (2017-18)

ODD SEMESTER

Dates	JUNE 2017
5	College Reopens (for all SY and TY Classes)
6	9 am Prayer Service; 10.30 Classes for SY & TY begin
12	Joint TY Student Meeting with the Principal - 10.30 to 12.10 HALL
15,16,17	Graduation Ceremony (Self Financing & Masters; Science; Arts)
26	Ramzan Id (Public Holiday)

Dates	JULY 2017
1	Orientation for FY students
3	FY classes Start; 9 am Mass; 10.30 Classes begin
20 - 26	CIA - 1 (FY, SY & TY Classes)
31	College Day

Dates	AUGUST 2017
12, 13, 14	Malhar
15	Independence Day - Flag Hoisting at 8.30 am
17	Parsee New Year (Public Holiday)
18 to 24	CIA 2 (for FY, SY & TY Classes)
25	Ganesh Chaturthi (Public Holiday)
26 to 29	Mid-Term Break (For All Courses)

Dates	SEPTEMBER 2017
2	Bakri Id (Public Holiday)
26	Last Day of Teaching For All Classes
27, 28	Study Leave For Students (UG Courses)
29	End Semester Exams Begin (UG Courses)
30	Dassera (Public Holiday)

Dates	OCTOBER 2017
1	Muharram
2	Gandhi Jayanti
3 to 14	End Semester Exams Continues (UG Courses)
16 Onwards	Additional Exams (UG Courses)
17 to 31	Diwali Break (till 5 th November 2017) (For All Courses)

- Note:** 1) The listed Dates and Events can change, subject to circumstances.
2) Listed dates are subject to the Govt. of Maharashtra's list of Public holidays for 2017

16. COLLEGE CALENDAR (2017-18)

EVEN SEMESTER

Dates	NOVEMBER 2017
8	College Reopens (for UG and PG Courses)

Dates	DECEMBER 2017
1	Id – e – Milad (Public Holiday)
2	College Sports - 8 am Onwards
4	Traditional Day
7	FY, SY, TY Results
9	Parents – Teachers Meeting
16 to 22	CIA 1 (FY, SY & TY Classes)
25	Christmas (Public Holiday)
26 to 1 Jan	Winter Break (For All Courses)

Dates	JANUARY 2018
2	College Reopens (For All Courses)
15 & 16	Paradigm
25 & 26	IMG's Jan-Fest; 26 th January, Republic Day – Flag Hosting (8.30 am)
29 to 3/2	CIA 2 (till 3 rd February 2018) (FY, SY & TY Classes)

Dates	FEBRUARY 2018
17	Last Day For All EC Activities
24	TY Farewell

Dates	MARCH 2018
3	Last Day of Teaching - For B.Sc. & B.Sc.(IT) Classes
5 to 13	Science Practical Exams (UG Courses)
13	Last Day of Teaching - For BA, BMS, BMM & BVoc Classes
14 to 16	Study Leave For Students (UG Courses)
17 to 30	End Semester Exams (UG Courses)

Dates	APRIL 2018
2 Onwards	Additional Exams (UG Courses)
13	Display of FY Assessed papers
16	Display of SY Assessed papers
20	Display of TY Assessed papers

Dates	MAY 2018
2,3	FY Results & FY to SY Admissions
4,5	SY Results & SY to TY Admissions
22	Online display of TY Results

Note: 1) The listed Dates and Events can change, subject to circumstances.
 2) Listed dates are subject to the Govt. of Maharashtra's list of Public holidays for 2017
 And the Govt. of Maharashtra's list of Public holidays for 2018

COLLEGE ANTHEM

Chorus

Xavier's - you gave me roots and wings
Xavier's - opened my eyes to things
Xavier's - somewhere along the way
You taught me how to fly
And how to stay
In a world outside so differently
Xavier's - you helped me become more me !

To fly like an eagle, discover new skies
With wings we've been given
To soar ever high
Over mountain and ocean beach
Learning from what they teach
Believing that we can reach
Way beyond (Chorus)

To walk over rough roads
To open our minds
To ask the right questions
And answers to find
Even though we stand alone
We know that we have grown
All because you've shown
Skies beyond ... (Chorus)

To reach out, believing
To love is to share
In giving, receiving
Learning to care
Through a world that's one big surprise
We live and we learn to rise
From valley to lofty skies
Up up beyond ... (Chorus)

Composed by Fr. Terence Quadros, S.J. and Fr. Roy Pereira, S.J.



Provoke
To
Fly

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