PROSPECTUS 2014-2015



COLLEGE GYMKHANA

The College Gymkhana provides facilities to students to participate in various sports and games. The College regularly sends out students to represent the college in various tournaments, both in individual and team events. Students can participate in riffle shooting, rappling, wall, climbing etc.

STUDENT'S COUNCIL

The Students' Council is managed by its Chairperson & various Secretaries, It encourages students to take part in Dramatics, Dance & Music, Debating, Audition & Elocution, Essay Writing, Poetry Writing, Singing Contests, arranging College Exhibition and other competitions.

The G. S. (General Secretary) is elected by the elected Class Representatives as per notification of the University.

 $The \ G. \ S. \ cu-ordinates \ with the \ Secretaries \ of \ various \ societies/Associations \ to \ ensure \ a \ smooth \ functioning \ of \ the \ Students' \ Council.$

The Students' Council organizes celebration of various "Days" such as Rose Day; Black & White Day, Saree & Tie Day, Friendship Day & Traditional Day with the prior permission of the Principal.



Prospectus For the Academic Year 2014-2015



Late Shri. Vishnu Waman Thakur Charitable Trust's Bhaskar Waman Thakur College Of Science, Yashvant Keshav Patil College Of Commerce, Vidhya Dayanand Patil College Of Arts Utkarsha Junior College

VIVA College Road, Virar (West), Pin-401 303. And Viva Jr. College, Nallasopara (East)

PROSPECTUS 2014-2015



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PROSPECTUS 2014-2015

T.Y.BHTMS

- 1. Food Production -III
- 2. Food & Beverage Service -Ill
- 3. Rooms Division Management -Ill
- 4. Hospitality Marketing
- 5. Entrepreneurship & Enterprise Management
- 6. Strategic Management for Hospitality Industry
- 7. Organizational Behaviour
- 8. Financial Management

Hotel and Tourism Industries are growing at a rapid pace not only in India, but all over the World. BHTMS is ideally suitable to meet the needs of students who wish to join the Hospitality Industry and hence it is one of the leading career oriented Degrees presently available. Viva College is one of the leading colleges of Mumbai to start this course at its Campus at Virar.

Scope: A BHTMS candidate has wide career opportunities in the following areas.

- 1. Hotels & Resorts
- 2. Industrial, Institutional and Contract Catering
- 3. Airlines and Cruise Ships
- 4. Health Care Centres and clubs etc.

Industrial Training: FY BHTMS students have been placed at Hotel Sea Princess, Rugby Hotels etc. for Summer Training.

THE COLLEGE LIBRARY & OTHER FACILITIES

The College Library remains open for Study, Reference and Issue of books from 7.00 am to 5.00 pm on all Working days?

Any change in Library hours will be notified on the Library Notice Board from time to time. Presently the Library has more than 7,000 titles comprising more than 11,200 copies on various subjects related to the Courses taught in the Degree & junior College.

Internet facility: Internet facility is available for students in the Library during the Library's working hours.

In addition, the Library subscribes to 9 English, 4 Marathi & 1 Hindi newspapers for students. The Library regularly orders leading Business as well as General News Magazines for the benefit of students. Some of the magazines that the library subscribes to are - The Economist, Business World, Business Today, Economic & Political Weekly, India Today etc.

The Library has a total staff of 7, Who is always attentive to the needs of students and teachers & is very cooperative.

PROSPECTUS 2014-2015



BACHELOR OF HOTEL & TOURISM MANAGEMENT STUDIES (FYB.SC.(HS))

Eligibility:

 $\label{lem:minimum 45\%} In SCC. (Art/Commerce/Science) or its equivalent in aggregate. BHTMS is a three year full time Degree Affiliated to University of Mumbai. The subjects covered are as given below:$

F.Y.BHTMS

SEMESTER - I

- 1. Food Production & Patisserie I
- 2. Food & Beverage Service I
- 3. Front Office I
- 4. House Keeping I
- 5. Rooms Division Management (Practicals) I
- 6. Communication Skill-I (English & French)
- 7. Information Technology
- 8. Food Safety & Nutrition

EY.BHTMS

SEMESTER - II

- 1. Food Production & Patisserie II
- 2. Food & Beverage Service II
- 3. Front Office II
- 4. House keeping II
- 5. Rooms Division Management (Practicals) II
- 6. Communication Skill-II (English & French)
- 7. Principles of Hotel
- 8. Principles of Management

S.Y. Bsc H.S. (Hospitality Study)

SEMESTER-III & SEMESTER-IV

- 1. Food Production & Patisserie III
- 2. Food & Beverage Service III
- 3. Front Office III
- 4. Housekeeping III
- 5. Rooms Division Management (Practicals) III
- 6. Hotel Accountancy & Cost Control
- 7. Hospitality Law & Human Resource Management
- 8. Management Information System in Hospitality Industry



PROSPECTUS 2014-2015

VISION

Viva College strives to create an excellent platform of growth for student with its infra structural facility to give birth to an era of ACTIVE, ALERT and COMPETITIVE GENERATION.

MISSION

Our mission is to provide quality education to students. To teach them the value of education and make them believe in the Education System.

OBJECTIVES OF THE TRUST

The Objectives for which the Trust has been established are as under:

- 1. To spread education in all its branches.
- 2. To make such education available to all without any distinction of caste, creed, class of community.
- 3. To promote and impart all kind of education including medical education and establish, assist and to conduct educational institutions in rural areas or at such place or places as the Trust may decide from time.
- 4. To provide, maintain, run and construct hostels, Boarding Houses, and Residential quarters for students and staff.
- 5. To open, fund, establish, promote, set up, run, maintain, assist, finance, support and/or aid or help in the setting up and/or maintaining and/or running hospitals, charitable Dispensaries, Maternity homes, child welfare centers, convalescent homes, sanatoriums, hostels and other similar institutions or centers for rendering or providing medical relief to the suffering and downtrodden or for research centers and institutions for promotion.
- To state, maintain and assist any relief measures in those parts which are or become subjected to natural calamities such as flood, fire, drought, famine cyclone, earthquake, epidemic, storm, accident, pestilence etc.
- 7. To establish and aid pension schemes, provident or other funds, gratuities etc. and contribute in insurance schemes for employees, ex-employees, ex-workers of the Trust and their dependent relations. To do all such acts and things necessary for the promotion of all kinds of education either along in conjunction with any other person or institutions.

PREFACE

The Vishnu Waman Thakur Charitable Trust established the **UTKARSHA JUNIOR COLLEGE** in 1991 to promote the cause of higher education in Virar and its adjoining rural and adivasi Backward areas which have a population of over 1.5 Lac. The Junior College is affiliated to Maharashtra Board of Secondary and Higher Secondary Education.

Subsequently in the year 2000-2001, the **VIVA COLLEGE OF ARTS**, COMMERCE and SCIENCE was established with affiliation to the University of Mumbai. The College is located in a beautiful pollution free environment of Virar (West) at a distance of about 1 km from Virar Railway Station on Western Railway.

The Mandate of the Trust is to develop the college to a leading Centre of Education in its entire ramification in this region. In the last 6 years the college has made a phenomenal progress.

It started F.Y.B.COM. with an intake of 148 students in 2000-2001. Today it has all the 3 basic faculties of Arts, Commerce and Science, but also offers latest Career Oriented Professional Courses such as-BMM, BMS, B.Sc. (IT), B.Sc. (Computer Science), B.Sc Biotechnology, B.Com in Financial Market B.Com in Accounts & Finance, B.Com in Banking & Insurance and Hotel Management (BHTMS). Under the name of VIVA IMS, the Trust now offers Master of Management Studies (MMS), a post graduate degree affiliated to University of Mumbai, as well as Bachelor of Engineering (B.E.) in degree various branches. The Trust also runs College of Architecture, Fine Arts, Pharmacy and M.C.A. too



Presently, the approximate total Strength of the college stands around 9600, Faculty Strength of 200 and Non-Teaching and Supporting strength of 70. The College infrastructural financial are well developed and most of the courses are conducted at the degree level are on no grand basis with financial Support from the Trust only.

Despite the fact th-at the college is young, it did not lag behind in achieving academic laurels. It could produce at XII level a Merit holder-8th Rank in COMMERCE, Miss Rinki Murarilal Gupta (87.5%) in 2002-03. In the very 1st Batch of T.Y.B.Sc.-I.T. (Information Technology), the college could produce a University Topper - Miss Indu Purshotham in 2003-04 In 2006-07 Miss Anima Sinha stood IInd in Bombay University in the academic year BSc I.T.

Not only this, in extra- Curricular activities the students of VIVA College & UTKARSHA Junior College have won top prizes in several of the events organized at Inter- Collegiate, District, State and National Levels.

In the academic year 2005-06, Dhananjay Mhasakar of Degree College won 3rd Rank in Classical Vocal category in National youth Festival organized By Ministry of Cultural Affairs, Government of India and Abhijit Hatkar of Junior College represented Maharashtra 'Under 19' Chess Team which won the 3rd prize at National Level. Also Siddesh Jadhav represented University at National Level in Singing in the academic year 2007-08.

TRUSTEES & MANAGING COMMITTEE MEMBERS

TRUSTEES

1.	Shri Hitendra Vishnu Thakur	Presiden
2.	Shri Mukund Raghunath padhye	Secretary
3.	Shri Purushottam Dattatray Kodolikar	Trustee
4.	Shri Pradeep Vishnu Tendolkar	Trustee

PRINCIPAL

DEGREE

JR. COLLEGE

Dr. RAVIKIRAN D. BHAGAT

Mrs. KALPANA RAUT

VIVA College of Arts, Commerce & Science M.Sc., M.Phill., Ph. D. Utkarsha Junior College

VICE- PRINCIPAL

Mrs. PRAJAKTA PARANJAPE

Dr. C.L.MARATHE

MA, M.Com, M Phil.

M.Sc., Ph. D. (Jr. College)

Mrs. SHEETAL VARTAK

M.Sc., SET



PROSPECTUS 2014-2015

SEMESTER - IV

	Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
	1.	Quality Analytical Chemistry	PSCHA401	4	PSCHA4P1	2
Г	2.	Advance Instrumental Techniques	PSCHA402	4	PSCHA4P2	2
Г	3.	Environmental & Certain Industrially Important Material	PSCHA403	4	PSCHA4P3	2
Г	4.	Pharmaceutical, Biochemical & Organic Analysis	PSCHA404	4	PSCHA4P4	2

M.SC. HERBAL SCIENCE - I

Eligibility:

- B.Sc. in any subject of Biological Sciences / Biochemistry / Chemistry with any one subject of Biological Sciences up to S.Y level from any recognised university with 50% Marks.
- The admission will be granted on the basis of the marks obtained in the entrance examination conducted by the college and as per the guidelines of the University of Mumbai.

SEMESTER - I

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Plant Sciences -I	PSHS101	4	PSHSP101	2
2.	Modern Plant Authentification Techniques	PSHS102	4	PSHSP102	2
3.	Cultivation Practices -I	PSHS103	4	PSHSP103	2
4.	Phytoconstituents -I	PSHS104	4	PSHSP104	2

SEMESTER - II

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Plant Sciences -II	PSHS2O1	4	PSHSP201	2
2.	Genomics, Proteomics, Bioinformatics and Biostatistcs	PSHS202	4	PSHSP202	2
3.	Cultivation Practices -II	PSHS203	4	PSHSP203	2
4.	Phytoconstrituents -II	PSHS204	4	PSHSP204	2

SEMESTER - III

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Human Systems, Endocrinology, & Human Pathogens	PSHS301	4	PSHSP301	2
2.	Crude Drugs & Neutraceuticals	PSHS302	4	PSHSP302	2
3.	Systems of Medicine	PSHS303	4	PSHSP303	2
4.	Herbal Biotechnology	PSHS304	4	PSHSP304	2

SEMESTER - IV

Sr No		Course code (Theory)	Credit	Course code (Practical)	Credit
1	Immunology, Disorders & Diseasess & Molecular Biology	PSHS4O1	4	PSHSP401 (Project Work)	2
2	Commercial Aspects	PSHS402	4	PSHSP402	2
3	Medicinal Plants, Herbal Tinctures & Formulation &	PSHS403	4	PSHSP403	2
	Modern System of Medicine				
4	Environmetal Science	PSHS404	4	PSHSP404	2



M.Sc. CHEMISTRY (ORGANIC AND ANALYTICAL)

SEMESTER - I

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Physical Chemistry	PSCH101	4	PSCHP101	2
2.	Inorganic Chemistry	PSCH102	4	PSCHP102	2
3.	Organic Chemistry	PSCH103	4	PSCHP103	2
4.	Analytical Chemistry	PSCH104	4	PSCHP104	2

SEMESTER - II

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Physical Chemistry	PSCH 201	4	PSCHP201	2
2.	lnoganic Chemistry	PSCH 202	4	PSCHP202	2
3.	Organic Chemistry	PSCH 203	4	PSCHP203	2
4.	Analytical Chemistry	PSCH 204	4	PSCHP204	2

ORGANIC CHEMISTRY II

SEMESTER - III

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Theoretical Organic Chemistry - I	PSCH0301	4	PSCHP301	2
2.	Synthetic Organic Chemistry - I	PSCH0302	4	PSCHP302	2
3.	Natural Product & Spectroscopy - I	PSCH0303	4	PSCHP303	2
4.	Medicinal & Bioogranic Chemistry	PSCH0304	4	PSCHP304	2

SEMESTER - IV

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Theoretical Organic Chemistry - II	PSCH0401	4	PSCH04P1	2
2.	Synthetic Organic Chemistry - II	PSCH0402	4	PSCH04P2	2
3.	Natural Product & Spectroscopy - II	PSCH0403	4	PSCH04P3	2
4.	Medicinal & Bioogranic & Green Chemistry	PSCH0404	4	PSCH04P4	2

ANALYTICAL CHEMISTRY II

SEMESTER - III

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Quality Analytical Chemistry	PSCHA301	4	PSCHA3P1	2
2.	Advance Instrumental Techniques	PSCHA302	4	PSCHA3P2	2
3.	Environmental & Certain Industrially Important Material	PSCHA303	4	PSCHA3P3	2
4.	Pharmaceutical, Biochemical & Organic Analysis	PSCHA304	4	PSCHA3P4	2



RULES OF DISCIPLINE & PROPER CONDUCT

- 1.1 Possession and Production of Identity Card: Every bonafide student of the college must wear his / her Identity Card at all times when he / she is in the college campus.
- 1.2 A student who is found in a tutorial batch or a division or a class, which is not meant for him / her, will be severely dealt with.
- 1.3 Students should not loiter in the corridors or in the college premises particularly when classes are going on.
- 1.4 Complete silence should be observed in the Library and its Reading Room as well as in the classrooms. Students are advised to maintain low voice conversation in the corridors.
- 1.5 Student should not invite any outsider to the college premises, classrooms, library, canteen or gyrnkhana.
- 1.6 No fund collection is to be made by any student without prior written permission from the Principal.
- 1.7 Students should take care of their books, exercise books, calculators and other belongings. They are advised not to leave those in the classroom, library, gymkhana, canteen, etc. The college is not responsible for any loss of or damage to, the articles or valuables of the students.'
- 1.8 Students are not permitted to park two Wheelers or four wheelers in the college premises.
- 1.9 Students should not cause any damage to college property and are expected to take care of it.
- 1.10 The principal has the power to determine the suitable disciplinary action, for maintaining discipline and proper conduct of the students of the college.
- 1.11 Undertaking to be given by the guardians and ward: Parents/ Guardians are requested to go through the rules of conduct and discipline while allowing their son / daughter / ward to join the college. The students will have to submit an undertaking from their parent/ guardian on the prescribed form given in the admission form that their wards would submit themselves to the normal enforcement of rules of discipline.

1.12 Smoking & Drugs:

- A) Smoking is strictly prohibited in the college and canteen.
- B) Any student having anything to do with the use of narcotic drugs will be expelled from the college and criminal proceeding will be initiated against him/her.
- C) The college being a Tobacco Free Zone, students are not allowed to smoke or consume any tobacco products in the campus:

AS PER THE PROVISIONS OF PREVENTION OF FOOD ADULTERATION ACT. 1954:

SALE OR DISTRIBUTION OF GUTKHA AND RELATED FOOD PRODUCTS IS PROHIBITED WITHIN 100 METERS OF THE PERIPHERY OF ANY EDUCATIONAL, GOVERNMENT OR SEMI GOVERNMENT INSTITUTION. ANY VIOLATION OF THE ABOVE WOULD ATTRACT A PENALTY OF RS. 1000/- ALONG WITH 3 YEARS RIGOROUS IMPRISONMENT.

- 1.1 Expulsion: If, for any reason, in the opinion of the Principal, which shall be Final, the continuance of the student in the college is deemed detrimental to the best interest of the college, the Principal may expel such a student from the college without assigning any reason for the decision.
- 1.2 Students who are found irregular in attendance and / or misbehave in the college, will not be admitted to the next semester / subsequent year as the case may be, and the admission of such students shall be at the discretion of the principal.

2. ATTENDANCE

 $2.1 \qquad Ordinance - 0.119 \, Relating \, Attendance \, :-$



For granting the terms in each subject minimum attendance of 75% of the theory lectures, practical and tutorial (wherever prescribed) separately will be required out of the total number of lectures, practical and tutorials in the subject conducted in the term.

- 2.2 Similarly, a student who has been given certain class work or assignment has to complete it to the satisfaction of the concerned teacher.
- 2.3 A student who is not able to attend his/her classes regularly and/or who is not able to complete his/her tutorial/project/assignments properly may not be permitted to appear for the examinations as per the University rules.
- 2.4 Ordinance 0.125 relating to the keeping of terms to the satisfaction of the Principal of the college: To keep a term at a college or recognized institution, an undergraduate or post graduate student must complete, to the satisfaction of the Principal or the Head of Institution, the course of study at the college or institution, prescribed for such a term for the which such an undergraduate or post graduate student belongs.
- 2.5 Leave of Absence: In case students who are not able to attend lectures and/or tutorials for a period exceeding a week in a term, should give intimation to the Principal of the college and take prior permission for such absence.
- 2.6 Absence on medical or other grounds: Absence on medical or other grounds, which is given to the satisfaction of the Principal, may be considered for a satisfactory reason for absence from lectures or tutorials. Yet at the time of granting the terms to a student, his/her class work and other academic inputs would be considered to be of paramount importance. Hence, a student may not be granted his/her terms even if he/ she explains his/her absence on medical or other grounds. Absence should be with prior permission; in case it is due to unforeseen circumstances, an application duly supported by a medical certificate in the case of illness, or duly supported by other satisfactory evidence in the case of other reasons, must reach the Principal within a week of such occasion of absence.

3. DRESS CODE

Students are expected to wear decent clothes, Visitors and students are strictly prohibited from wearing the following whilst on the college premises.

- Boys :- Caps, hats, half-pants, shorts, Bermudas, Sleeveless T-shirts.
- Girls :- Caps, hats, half-pants, shorts, Bermudas, skin tight dresses, revealing dresses, short dresses or short skirts, sleeveless and short tops and pedal pushers, Facial piercing other than that for ear-rings and nose-rings strictly prohibited.

4. CELL PHONES

Use of cell Phones in any form the college premises is strictly prohibited. On breach of this discipline, the cell-phone holder will be liable for penalty Rs. 500/- for the first offence. In case of a repetition of the offence it shall be liable to confiscation.

- Student are required to take adequate care of their belongings while on the college premises. Management will not be responsible for any theft/damege to the same.
- 6 Students are hereby warned not to sit on parapet walls.
- Grievance redressal cell and Women Development Cell are functioning in the college as per the directions of University of Mumbai.

8. ANTI-RAGGING

Maharashtra Prohibition of Ragging Act 1999, which is in force with effect from 15th May 1999, has the following provisions for Action against "Ragging":

a) Ragging within or outside the College is strictly prohibited. -



PROSPECTUS 2014-2015

M.SC BIOTECHNOLOGY -

ELIGIBILITY CRITERIA:

B. Sc. in Biotechnology from University of Mumbai any equivalent Degree from other University.

SEMESTER - I

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Biochemistry	PSBT 101	4	PSBTP 101	2
2.	Immunochemistry	PSBT 102	4	PSBTP 102	2
3.	Genome & Transcriptomes	PSBT 103	4	PSBTP 103	2
4.	Biophysics	PSBT 104	4	PSBTP 104	2

SEMESTER - II

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Metabolomics	PSBT 201	4	PSBTP 201	2
2.	Clinical Immunology	PSBT 202	4	PSBTP 202	2
3.	Genomics & Molecular biology	PSBT 203	4	PSBTP 203	2
4.	Advanced Analytical Techniques	PSBT 204	4	PSBTP 204	2

M.SC BIOTECHNOLOGY - II

SEMESTER - III

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	PTC & ATC	PSBT 301	4	PSBTP 301	2
2.	Medical Microbiology	PSBT 302	4	PSBTP302	2
3.	Bioprocess & Applied Biotechnology	PSBT 303	4	PSBTP 303	2
4.	Developmental Biology	PSBT 304	4	PSBTP 304	2

SEMESTER - IV

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Nanotechnology	PSBT 401	4	PSBTP 401	2
2.	IPR & environment	PSBT 402	4	PSBTP 402	2
3.	Bioinformatics	PSBT 403	4	PSBTP 403	2
4.	Biostatics	PSBT 404	4	PSBTP 404	2



M. SC. BIOANALYTICAL SCIENCE - II

SEMESTER - III

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Basic Microbiology, Genomics, CE and Toxicology-I	PSBN301	4	PSBNP301	2
2.	MS applications, Metabolite studies, Thermal				
	Analysis and Tracer Techniques-I	PSBN302	4	PSBNP302	2
3.	Standardization of ASU drugs, Statistics & GMP-I	PSBN303	4	PSBNP303	2
4.	BA/BE Studies, GCP and Method Validation-I	PSBN304	4	PSBNP 304	2

SEMESTER - IV

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Basic Microbiology, Genomics, CE and Toxicology-II	PSBN 401	4	PSBNP4O1	2
2.	MS applications, Metabolite studies, Thermal	PSBN 402		PSBNP402	2
	Analysis and Tracer Techniques-II		4		
3.	Standardization of ASU drugs, Statistics & GMP-II	PSBN 403	4	PSBNP403	2
4.	BA/BE Studies, GCP and Method Validation-II	PSBN 404	4	PSBNP404	2

Intake capacity - 20 Seats

M. Sc. PHYSICS (ELECTRONICS) I

ELIGIBILITY CRITERIA:

1) B. Sc. in physic from University of Mumbai any equivalent Degree from other University.

M.Sc-Part (I)

SEMESTER- I

- 1. Mathematical Physics
- 2. Classical Physics
- 3. **Ouantum Physics**
- 4. Solid State Device

M.Sc-Part (II)

SEMESTER- III

- 1. Statistical Mechanics
- 2. Nuclear Physics
- 3. 8-16 BIT Up
- 4. Programming C++

SEMESTER- II

- 1. Electronics
- 2. Electro Dynamics
- 3. Quantum Mechanics
- 4. Solid State physics

SEMESTER- IV

- 1. Experimental Physics
- 2. Atomic and molecular Physics
- Micro controller, Interfacing & Arm 7
- 4. VHDL & Communication Interface



PROSPECTUS 2014-2015

- Whosoever directly or indirectly commits, participates or abets, or propagates ragging within or outside the College, on conviction, be punished with imprisonment for a term upto 2 years and / or penalty which may extend to ten thousand rupees.
- Any student convicted of an offence of ragging shall be dismissed from the educational institution and such students shall not be admitted in any other educational institution for a period of 5 years from the date of order of such dismissal.
- d) Whenever any student or, as the case may be, the parent or guardian or a teacher of an educational institution complains, in writing, of ragging to the head of the education institution, the head of the educational institution shall, without prejudice to the foregoing provisions, within seven days on receipt of the complaint, enquire into the matter mentioned in the complaint and if, prima facie, it is found to be true, suspend the student who is accused of the offence, and shall, immediately forward the complaint to the police station having jurisdiction over the area in which the educational institution is situated. If there is no substance, prima facie, in the complaint received, he/she shall intimate the fact, in Writing to the complainant. The decision of the head of the educational institution shall be Final.
- e) If the head of the educational institution fails or neglects to act in the manner specified in section "d" above When a complaint of ragging is made, such person shall be deemed to have abetted the offence and shall, on conviction, be punished as provided under section "b" above.
- f) Additional punitive provisions stipulated by the latest order of the Supreme Court.

Ragging in the College premises is an offence and stern action will be initiated against such offence

ADMISSION RULES & REGULATIONS

Admission for the academic year 2012-13 to Junior & Degree College will start immediately after the declaration of results of SSC / HSC by the board of Secondary and Higher Secondary Education, Maharashtra. However, the admission forms will be available at the college office before the declaration of the results. The admission will be strictly based on the merit of the result of the Board / University / Entrance Test, whichever is applicable. Students are advised to see the College Notice Board in this regard.

- ELIGIBILITY: As specified by the University of Mumbai. (Degree College)
 - Sc Maharashtra Board of Secondary & Higher Secondary Education. (For Junior college)

Please refer to the respective section of the Prospectus to check eligibility for a particular Degree or Course. A Credit system has been introduced from the academic year 2011-12 as per the Guidelines of University of Mumbai for degree as well as post graduate students.

The applicant seeking admission to a course in Junior / Degree courses shall submit his/her application in the prescribed form. Application forms will be available from the Administration office of the College.

Necessary documents to be submitted with the application form - I

- a) Mark list of S.S.C. / H.S.C. Examination in original with three attested photocopies.
- School/junior College leaving certificate (Original with two attested photocopies)
- A passport size recent photograph of the applicant a fixed to the prescribed application form.
- Eligibility certificate issued by the Board or University of Mumbai (Applicable for students from other Board or University).
- An undertaking to fulfill certain conditions with regard to discipline, attendance /project work / tutorials



- All Reserved / Non-General Category students (eg. SC/ST/DT/NT/OBC/EBC etc.) should produce necessary certificates / proof while seeking admission in any Reserved category.
- Notice regarding admission will be displayed on the Notice Board. Students & Parents are requested to go through it and submit their applications accordingly.

The name of the selected applicants shall be notified on the Notice Board, They should pay necessary fees in full immediately, failing which their claim for admission will not be considered, Students are requested to read the notices carefully. In view of the Board / University restriction on additional division and number of students to be admitted in the college the revised procedure as per order will be followed.

- All admissions are valid only for one academic year and need to be renewed by Application in the prescribed form for every subsequent year of study in the College.
- Once a student is admitted to the college he/she shall be liable to pay full fees for the whole term/semester.
- Original Mark-sheet submitted to the college could only be returned one month after admission.
- 8. A student once admitted will be considered as duly enrolled for the academic year, unless he/she informs the Principal in writing of his/her intention to leave the college at least a week before the commencement of the second term. If such intimation is not received; full fees for the second term will have to be paid. No refund of fee is allowed without prior approval of the Principal.
- All students taking admission for Professional Degrees (e.g. BMS, BMM, BHTMS, B. Sc. IT, B. Sc. (Computer Science), B. Com. (Acc. & Fin.), B. Com. (Banking & Insurance) etc. will be required to pay additional fee as prescribed by the Board / University.
- Seats are reserved for Backward class Students as per Government Rules. 10)
- 11) The fees mentioned herein may be changed as per the University guidelines or discretion of the College.
- The Broad Categories of unfair Means Resorted to by Students at the University/College/Institution examinations and the Quantum of Punishment for each Category thereof are mentioned below.

• ORDINANCE 5050, APPENDIX - A.

Sr. No.	Nature of Malpractice	Quantum of Punishment
1.	Possession of Copying Material-	Annulment of the performance of the student at the University/ College/ Institution examination in full (Note: This quantum of punishment shall apply also to the following categories of Malpractices at Sr. No. (2) to Sr. No. (12) in addition to the punishment prescribed thereat.
2.	Actual copying from the copying material.	Exclusion of the student from University or College or Institution examination for two additional Examinations (BOTH THE STUDENTS)
3.	Possession of another student's answer book.	Exclusion of the student from University or College or Institution examination for two additional examinations. (BOTH THE STUDENTS)
4.	Possession of another student's answer book+Accutal evidence of copying therefrom.	Exclusion of the student from University or College or Institution examination for two additional examinations. (BOTHTHE STUDENTS)
5.	Mutual / Mass copying	Exclusion of the student from University or College or Institution examination for three additional examinations.



PROSPECTUS 2014-2015

SEMESTER - IV

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Eco Technology	PSEVS 401	4	PSEVSP401	2
2.	Environmental Biotechnology & Nanotechnology	PSEVS 402	4	PSEVSP402	2
3.	Sustainable Management	PSEVS 403	4	PSEVSP403	2
4.	Environmental Management	PSEVS 404	4	PSEVSP404	2

M.SC. BIOANALYTICAL SCIENCE - I

ELIGIBILITY CRITERIA:

- 1) B Sc with Chemistry / Botany / Zoology / Biochemistry / Microbiology / Life Sciences / Biotechnology (Chemistry upto S.Y.B.Sc level)
- 2) Admission will be granted strictly based on Entrance test conducted by college as per University's guidelines

Intake capacity - 20 Seats

SEMESTER - I

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Different Medicinal Systems,	PSBN101	4	PSBNP101	2
	Pharmacognosy & Extraction Techniques-I				
2.	Patents, Drug Act and Quality Management-I	PSBN102	4	PSBNP102	2
3.	Chromatography and Spectroscopy-I	PSBN103	4	PSBNP103	2
4.	Proteomics, Bioinformatics & Pharmacokinetics-I	PSBN104	4	PSBNP104	2

SEMESTER - II

	Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
	1.	Different Medicinal Systems,	PSBN2O1	4	PSBNP2O1	2
		Pharmacognosy & Extraction Techniques-I				
	2.	Patents, Drug Act and Quality Management-I	PSBN202	4	PSBNP202	2
ſ	3.	Chromatography and Spectroscopy-I	PSBN 203	4	PSBNP203	2
Γ	4.	Proteomics, Bioinformatics & Pharmacokinetics-I	PSBN204	4	PSBNP204	2

PROSPECTUS 2014-2015



	Sem - III	Sem - IV
1.	Software Testing	1. Information Security
2.	Artificial Intelligence	2. Robotics
3.	Parellel Processing	3. Distributed Computing
4.	Multimedia Systems and convergence of	4. Java Technology
	Technologies	5. Project

M.Sc. ENVIRONMENTAL SCIENCE- I

ELIGIBILITY CRITERIA:

- B Sc with Chemistry / Botany / Zoology / Biochemistry / Microbiology / Life Sciences / Biotechnology (Chemistry upto S.Y. B.Sc level)
- 2) Admission will be granted strictly on the basis of Entrance test conducted by college as per University's guidelines

Intake capacity - 20 Seats

SEMESTER - I

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Ecology and Ecosystem	PSEVS101	4	PSEVSP101	2
2.	Biodiversity	PSEVS102	4	PSEVSP102	2
3.	Environmental and Natural resources	PSEVS103	4	PSEVSP103	2
4.	Environmental Pollution	PSEVS 104	4	PSEVSP104	2

SEMESTER - II

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Environmental Monitoring & Assessment	PSEVS 201	4	PSEVSP201	2
2.	Pollution control technology	PSEVS 202	4	PSEVSP202	2
3.	Green Technology	PSEVS 203	4	PSEVSP203	2
4.	Environment Acts Rules & Regulations	PSEVS 204	4	PSEVSP204	2

SEMESTER - III

Sr. No.	PAPER TITLE	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Advanced Pollution Control Technology	PSEVS 301	4	PSEVSP301	2
2.	Instrumentation and Biostatistics	PSEVS 302	4	PSEVSP302	2
3.	Environmental Toxicology	PSEVS 303	4	PSEVSP303	2
4.	Industrial Hygiene & Chemical Safety	PSEVS 304	4	PSEVSP304	2



PROSPECTUS 2014-2015

Sr. No.	Nature of Malpractice	Quantum of Punishment		
6.	(i) Smuggling out or smuggling in of answer book as copying material.	Exclusion of the student from University or College or Institution examination for four additional examinations.		
	(ii) Smuggling in of written answer book based on the question paper set at the examination	Exclusion of the student from University or College or Institution examination for four additional examinations.		
	(iii) Smuggling in of written answer book and forging signature of the Jr. Supervisor thereom.	Exclusion of the student from University or College or Institution examination for four additional examinations.		
7.	Attempt to forge the signature of the Jr. Supervisor on the answer book supplement	Exclusion of the student from University or College or Institution examination for four additional examinations.		
8.	Interfering with or counterfeiting of University/ College/institution seal, or answer books or office stationery used in the examinations.	Exclusion of the student from University or College or Institution examination for four additional examinations.		
9.	Answer book, main or supplement written outside the examination hall or any other insertion in answer book	Exclusion of the student from University or College or Institution examination for four additional examinations.		
10.	Insertion of currency notes/ to bribe any of the $\mbox{\it person's}$ connected with the conduct of examinations.	Exclusion of the student from University or College or Institution examination for four additional examinations. (Note :- This money shall be credited to the Vice-Chancellor's Fund)		
11.	Using obscene language/violence threat at the University /College /Institution examination to Jr./St. Supervisors/Chief Conductor or examiners.	Exclusion of the student from University or College or Institution examination for four additional examinations		
12.	(i) Impersonation at the University/ College/ Institution examination	Exclusion of the student from University or College or institution examination for five additional examinations (Both the students if impersonator is University or College or Institute student).		
	ii) Impersonation by a University College/ Institution student at S.S.C. / H.S.C. any other examination	Exclusion of the student from University or College or Institution examination for four additional examinations		
13.	Revealing identity in any form in the answer written or in any other part of the answer book by the student at the University or College or Institution examination.	Annulment of the performance of the Student at the University or College or Institution examination in full.		
14.	Found having Written on palms or on the body, or on the clothes while in the examination.	Annul ment of the performance of the Student at the University or College or Institution examination in full.		
15.	All other malpractices not covered in the aforesaid categories.	Annulment of the performance of the student at the University or College or Institution examination in full, and severe punishment depending upon the gravity of the offence.		

- 16. If on previous occasion disciplinary action was taken against a student for malpractice used at examination and he/she is caught again for mal practices used at the examinations, in this event he/she shall be dealt with severely. Enhanced punishment can be imposed on such students. This enhanced punishment may extend to double the punishment provided for the offence, when committed at the second or subsequent examination.
- $\begin{array}{ll} 17. & \mbox{Practical/ Dissertation/ Project report Examination. Student involved in malpractices at Practical/ Dissertation / \\ & \mbox{Project report examinations shall be dealt with as per the punishment provided for the theory examination.} \end{array}$
- 18. The Competent Authority; in addition to the above mentioned punishments, may impose a fine on the student declared guilty.

Note

(The term "Annulment of Performance in full" Includes performance of the student at the theory as well as Annual Practical examination but does not include performance at term work. Project work with its term work, oral or Practical and dissertation examinations unless malpractice used there)

PROSPECTUS 2014-2015



ACADEMIC COURSES

JUNIOR COLLAGE

FACULTY & MEDIUM	SUBJECT		
Arts (Marathi)	Compulsory subjects - Marathi, English, Economics, History / E.VS, Optional subjects - 1. Hindi / IT, 2. Geography / Stenography.		
Arts (English)	Compulsory subjects - Political Science, English, Economics, History / EVS. Optional subjects - 1. Hindi / IT, 2. Geography/ Stenography/ French/ Psychology		
Commerce	Compulsory subjects - English, Economics, Accounts & Book Keeping, O. C. /EVS. Optional subjects - 1. Marathi / Hindi / IT/French Commerce 2. S. P / Maths / Stenography Additional subjects - 1 Office Management II Banking.		
Science	Group I - English, Physics, Chemistry, Maths, Biology, Marathi/ French & Psychology Group II - English, Physics, Chemistry, Maths, Biology, Hindi/ French & Psychology. Group III - English, Physics, Chemistry, Maths, Biology, I, T. & Psychology. Group IV - English, Physics, Chemistry; Maths, Computer Science I & Computer Science II Group V - English, Physics, Chemistry, Maths, Electronics I & Electronics II.		

- A] For FYJC Classes One unit of 30 marks and 20 marks tutorial in the first and second term. One terminal and final examination of 80 marks and oral / practical examinations 20 marks. For FYJC E.V.S. one project of 40 marks and two unit tests of 30 marks each, one terminal and final examination of 60 marks.
- B] For SYJC Classes One terminal examination and preliminary 80 marks and oral/practical examination of 20 marks For Commerce optional subjects one theory paper of 100 marks in the First term and second term. For SYJC E.V.S. Subject one project of 40 marks and one terminal and final examination of 60 Marks. For XIth Standard Stenography Terminal final theory examination will be of 100 Marks.
- C] For Vocational subjects (Electronics & Computer Science) Two theory papers, each of 50 marks & Two Practical exams, each of 50 marks.
- D] For Stenography Two practical exams Typing (70 marks) & Short Hand (30 marks).



PROSPECTUS 2014-2015

Sem - IV Sem - III Artificial Intelligence 1. Image Processing 2. Distributed Computing 2. Embedded Systems 3. Elective I (Select One) 3. Elective I (Select One) a. Parallel Processing a. Embedded Systems b. System Security b. Information Security c. Enterprise Networking c. Satellite Communication d. Fuzzy Logic and Neural d. Multimedia Systems and convergence to e. Natural Language techniques 4. Elective II (Select One) e. Natural Language Processing - II a. Pattern Recognition 4. Elective II (Select One) b. Virtual Reality and Virtual Environment a. Computer Vision c. Bio Informatics b. Java Technology d. Optimization Techniques c. Intelligent System e. Principles of Robotics Programming-1 d. Customer Relationship Management e. Principles of Robotics Programming- II 5. Project Work

M.Sc. INFORMATION TECHNOLOGY (IT)

ELIGIBILITY:

For admission to M.Sc. IT the following conditions will apply

- 1. All the admissions will be on merit. (i.e., percentage of aggregate marks secured for the qualifying examination.
- 2. Reservation criteria should be followed as prescribed by Government at the time of admission.
- 3. Students securing minimum 45 percent marks at the three year B.Sc degree in Information Technology of Mumbai University or any recognized university are eligible.

OR

B.Sc with minimum 45 percent marks.

OR

BE in IT or Electronics and telecomm with minimum 45 percent marks.

OR

BE degree in Information Technology with 45 Percent marks.

No of Seats: 40 Seats

M.Sc. Information Technology (M.Sc IT)

	Sem - I		Sem - II		
1. Da	ata Mining	1.	Mobile Computing		
2. Di	istributed System	2.	Advanced Computer Networks		
3. Da	ata Analysis Tools	3.	Cloud Computing and Ubiquitous System		
4. Sc	oftware Testing	4.	Advanced Database System		

2

PROSPECTUS 2014-2015



SEMESTER - II

- 1. MEC 2.1 Accounting for Managerial Decisions
- 2. MEC 2.2 Computer Applications in Business
- 3. MEC 2.3 E-Commerce
- 4. MEC 2.4 International Business Environment
- 5. MEC 2.5 International Marketing
- 6. MEC 2.6 International Finance
- 7. MEC 2.7 information Technology in Business

SEMESTER - III

- 1. MEC 3.1 Operation Research
- 2. MEC 3.2 Database Management
- 3. MEC 3.3 Internet and Web Designing
- 4. MEC 3.4 Service Marketing and Customer Relationship Management
- 5. MEC 3.5 Network Infrastructure & Payment System
- 6. MEC 3.6 Business Models for E-Commerce
- 7. MEC 3.7 Training Report and Presentation

SEMESTER - IV

- 1. MEC 4.1 Strategic Management
- 2. MEC 4.2 On line Marketing and E-CRM
- 3. MEC 4.3 Accounting Information System
- 4. MEC 4.4 Management Information System
- 5. MEC 4.5 International Business Laws and Taxation
- 6. MEC 4.6 Legal Security & Other Issues in E-Corn.
- 7. MEC 4.7 Project Report and Viva Voce2

Project: Project beginning at Semester III and Submission and viva voce at Semester IV

M.Sc. Computer Science (CS)

ELIGIBILITY CRITERIA:

- · All The Admissions Will Be On Merit.
- Minimum 45 Percent Marks At Three Year Degree In B.sc. Computer Science.
- Reservation Criteria Will Be Followed As Prescribed By Government At The Lime Of Admission

No Of Seats: 20 Seats

Sem - I		Sem - II
1.	Principles of Compiler Design - I	1. Principles of Compiler Design - II
2.	Digital Signal Processing - I	2. Digital Signal Processing - II
3.	Mobile Computing	3. Computer Simulation & modeling
4.	Data Warehousing and Mining	4. Advanced Database Systems



PROSPECTUS 2014-2015

ACADEMIC COURSES

FACULTY & MEDIUM	DEGREE
Arts (Marathi & English) B. A. (Bachelor of Arts)	
Commerce B. Com. (Bachelor of Commerce	
Science B. Sc. (Bachelor of Science) in Chemistry/ Physics / Mathematics / Botony / Zoology / Biotech / Computer science / Biochemistry	
Hotel Management	B. Sc. (HS) (Bachelor of Hotel & Tourism Management Studies)

SELF FINANCE COURSES

FACULTY & MEDIUM	DEGREE			
Science	B. Sc. (Biotechnology) B. Sc. (Computer Science) B.S.C. (I.T.)			
Management Studies	BMS (Bachelor of Management Studies)			
Mass Media	BMM (Bachelor of Mass Media)			
Commerce	BCBI (B.Com. in Banking & Insurance) BCAF (B. Com. in Accounting & Finance) BPM Com. in Financial Markets)			

POST GRADUATE DEGREES

M. A. Economics	M. Sc. (Biotechnology)
M. A. Psychology	M. Sc. (Bio analytical Science)
M. C. J. : M.A. (Journalism)	M. Sc. (Herbal Science)
M. Com (Accountancy)	M. Sc. (Organic Chemistry)
M. Com (Banking & Finance)	M. Sc. (Analytical Chemistry)
M. Com (E-Commerce)	M. Sc. (Environmental Science)
M. Sc. IT (Information Technology)	M. Sc. (Physics-Electronics)
M. Sc. CS (Computer Science)	

PROSPECTUS 2014-2015



ART FACULTY

BACHELOR OF ARTS (Marathi & English Medium)

An academic year is divided into two semesters and an examination is conducted at the close of each semester. Each paper will carry 60 marks, Theory Semester Pattern.

Passing Standard: 24 out of 60 in Theory, 16 out of 40 in Internal. (Combined marks of Sem I & Sem II)

F.Y.B.A. (SEM 1 AND SEM II)

- Foundation Course-paper I
 Social Awareness & Personality
 Development etc.
- Communication Skills in English.
- 3) Hindi /Marathi (Language)-Compulsory
- 4) Economics-Paper I/ English Literature I
- Political Science-Paper I
- 6) History Paper-I

S.Y.B.A. (SEM III AND SEM IV)

Compulsory Subject

- 1) Foundation Course-Paper II
- 2) Applied Component Mass Communication (English) or Demography

Optional Subjects

- A) History Paper II & Paper III
- B) Economics Paper II & Paper III / English Literature II & III
- C) Political Science Paper II & Paper III

T.Y.B.A. (SEM V AND SEM VI)

A student can opt for any one of the following groups -

A) Economics - 6 papers (Paper IV to Paper IX)

OF

B) **Economics** - 3 Papers (Paper IV to Paper VI) & **History** - 3 Papers (Paper IV to Paper VI)

OF

 Political Science - 3 Papers (Paper IV to Paper VI) & History - 3 Papers (Paper IV to Paper VI)



PROSPECTUS 2014-2015

M.Com. (Accountancy)

SEMESTER- I

- 1. Strategic Management
- 2. Economics of Global Trade & Finance
- 3. Advanced Financial Accounting
- 4. Advanced Cost Accounting

SEMESTER- III

- 1. Research Methodology
- 2. Adv. Fin. Management
- 3. Adv. Auditing
- 4. Direct & Indirect Tax

SEMESTER- II

- 1. Strategic Management
- 2. Economics of Global Trade & Finance
- 3. Advanced Financial Accounting
- 4. Advanced Cost Accounting

SEMESTER- IV

- 1. Research Methodology
- 2. Adv. Financial Management
- 3. Adv. Auditing
- 4. Direct & Indirect Tax

M.Com. (Banking & Finance)

SEMESTER- I

- 1. Strategic Management
- 2. Economics of Global Trade & Finance
- 3. Commercial Bank Management
- 4. Financial Services

SEMESTER- III

- 1. Research Methodology
- 2. Financial Markets in India
- 3. International Finance
- 4. Investment Management

SEMESTER- II

- 1. Strategic Management
- 2. Economics of Global Trade & Finance
- 3. Commercial Bank Management
- 4. Financial Services

SEMESTER- IV

- 1. Research Methodology
- 2. Financial Markets in India
- 3. International Finance
- 4. Investment Management

M.Com. E-COMMERCE

Course Period 2 Years (Semester System i.e. Sem. I to Sem. IV)

Scope 1. Self employment avenue to students.

- 2. Trained persons available to industry
- 3. Adequate exposure to operational environment in e-commerce Field students.
- 4. Adequate professional understanding about commerce.

Fee Structure As per University schedule till date. Fees per semester.

Subjects Entire course of 2 years includes 28 subjects.

Eligibility B.Com. Degree with minimum 50 % with any recognized University at first attempt.

(45% in case of Reserve Category)

SEMESTER- I

- 1. MEC 1.1 Mgt. Concept and Organisational Behaviour
- 2. MEC 1.2 Business Environment
- 3. MEC 1.3 Managerial Economics
- 4. MEC 1.4 Statistical Analysis
- 5. MEC 1.5 Financial and Cost Accounting
- 6. MEC 1.6 Marketing Management
- 7. MEC 1.7 Financial Management



POST GRADUATE DEGREES

M. A. ECONOMICS

Eligibility B.A. in Economics from University of Mumbai or any recognised University with Minimum 45%

No. of Seats

M. A. PART-I

Compulsory - Micro Economics Paper I

> - Macro Economics Paper II

Optional Paper III Agricultural Production & Markets

Industrial Economics

M. A. PART-II

Compulsory Paper I **Development Economics**

> Paper II - Public Economics

Agricultural Growth & Development Optional Paper III

Labour Economics & Industrial Relation

M. COM. ACCOUNTANCY

2 Year Degree Course

As per the ordinance and Regulations & Rules of University of Mumbai for M. com Degree Programme (Under the Credit Based Semester and Regulations and Regulations). The programme of the Credit Based Semester and Regulations are the Credit Based SemestGrading System) from Academic year 2012-13. (Not applicable for course offered by Institute of Distance and open learning. 60 marks theory + 40 marks project per subject.

M. COM. ACCOUNTANCY

2 Year Degree Course

As per the ordinance and Regulations & Rules of University of Mumbai for M.com Degree Programme (Under the Credit Based Semester and Grading System) from Academic year 2012-13. (Not applicable for course offered by Institute of Distance and open learning. 60 marks theory + 40 marks project per subject.

Eligibility Criteria

Master of Commerce (M.Com)	0.2310	A candidate for being eligible for admission to the Master of commerce course, shall have passed the examination for the degree of Bachelor of Commerce of this University (three years integrated course) of the degree of B.Com (Old Course) of this University, or Bachelor of Commerce (Accounting and Finance)
		OR
		$B. Com \ (Banking \ and \ Insurance) \ OR \ B.M. S \ degree \ examination \ or \ an examination \ of any other University recognized as equivalent \ thereto.$
		OR
		B.M.M degree examination (only for Management Specialization subjects) at the M.Com. degree levels.



PROSPECTUS 2014-2015

COMMERCE

F. Y. B. Com

	SEM -I	SEM - II		
	CORE COURSES			
1.	Accountancy & Financial Management -l	Accountancy & Financial Management- II		
2.	Commerce -I (Introduction to Business)	Commerce - ll (Service Sector)		
3.	Business Economics -I	Business Economics -I		
ALLIED COURSES				
4.	Business Communication	Business Communication		
5.	Environmental Studies -I	Environmental Studies - II		
6.	Mathematical and Statistical Techniques -I	Mathematical and Statistical Techniques -I		
INTERDISCIPLINARY				
7.	Foundation Course -I	Foundation Course -I		

B.COM. IN FINANCIAL MARKETS

Eligibility: A candidate for being eligible for admission to the Bachelor of Commerce (Financial Markets) Degree Course shall have passed XII Std. Examination of the Maharashtra State Board of Secondary & Higher Secondary Education or its equivalent and secured not less than 45% marks in aggregate at (40% in case of reserved category) one & the same sitting.

Every Candidate admitted to the Degree Course in the Constituent/affiliated college/recognized institution, conducting the course, shall have to register himself/herself with the University.

Duration of the course and related information

- The course shall be a full time course. The duration of the course shall be six semesters spread over in three years.
- Intake Capacity 60 Students: b)
- c) The Course shall consist of 38 modules of 100 marks each & 2 projects of 100 marks each. Total 4000 marks.
- Total number of lectures per paper per semester shall be maximum 60 of 50 minutes duration each. Number of lectures per paper per week shall be 4 in case of Theory papers.
- For subjects having practical component like 1.3, 1.4, 2.3, 3.5 & 6.3, total no. of Theory lectures per paper per week shall be 3 & 1 lecture of practical (consisting of the duration equal to 3 lectures of 48 minutes) per week per batch. (Batch is of 20 Students).
- On an average 15 working weeks are available in every semester.
 - Besides there shall be visiting faculties drawn from Experts/ Professionals from related fields, with Specialized Knowledge in Stock Exchange Banking, Finance, Accounting, Management etc.

SEMESTER - I

- Principles of Investment 1.1
- 1.2 Micro-Economics
- 1.3 **Basic Statistics**
- Basic Computer Skills
- Financial Accounting
 - **Business Environment**

SEMESTER - III

- **Business Ethics**
- Corporate Finance -I 3.2
- 3.3 Debt Markets
- 3.4 Banking in Finance System
- 3.5 Equity Markets -I
- 3.6 Organizational Behavior
- 3.7 Comp. Appl. In Investments

SEMESTER - II

- **Environment of Financial System** 2.1
- 2.2 Macro-Economics
- Statistical Applications 2.3
- 2.4 Communication Skills
- 2.5 Management Accounting
- Principles of Business Management

SEMESTER - IV

- Commodity Markets
- Corporate Finance -II 4.2
- Equity Markets -II 4.3
- 4.4 Financial Services
- Taxation for Investments 4.5
- 4.6 Security Analysis
- 4.7 **Business Law**



SEMESTER - V

- 5.1 Global Capital Markets
- 5.2 Regulation of Securities Market
- 5.3 Insurance (Fund) Management
- 5.4 Derivatives Markets
- 5.5 Foreign Exchange Markets
- 5.6 Port- folio Management
- 5.7 Project- I

SEMESTER - VI

- 6.1 Risk Management
- 6.2 Corporate Governance
- 6.3 Computer Applications Financial Services
- 6.4 Marketing of financial services
- 6.5 Mutual fund Management
- 6.6 Customer Relationship Management in financial Services
- 6.7 Project -II

BACHELOR OF COMMERCE IN ACCOUNTING & FINANCE (BCAF)

Eligibility: Minimum 45% for GENERAL Category & Minimum 40% for RESERVED Category in H.S.C. (Commerce) in aggregate AT FIRST ATTEMPT

Structure: This is a Semester pattern Degree in which examination is conducted & result is declared at the end of each semester. Each subject has examination of 100 marks comprising 40 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 60 marks of Theory paper:

Passing Standards: Internal Assessment - Min. 16 out of 40

Theory Paper - 24 out of 60 Total Marks - Min. 40 out of 100

F.Y.B.CAF

SEMESTER - I

- 1. Financial Accounting-I
- 2. Cost Accounting-I
- Economics-I
- 4. Commerce-I
- Information Technology-I
- 6. Business Communication-I
- 7. Foundation Course-I

SEMESTER - III

- 1. Financial Accounting III
- 2. Cost Accounting II
- 3. Auditing II
- 4. Economics II
- Business Law II
- 6. Management I
- 7. Foundation Course II
- 7. Foundation Course II

SEMESTER - V

- 1. Financial Accounting V
- 2. Cost Accounting III
- 3. Financial Accounting VI
- 4. Management Accounting II
- Taxation III
- 6. Economics III

SEMESTER - II

- 1. Financial Accounting -II
- 2. Auditing-I
- 3. Financial Management-I
- 4. Taxation-I
- 5. Business Law I
- 6. Quantitative Methods for Business
- 7. Business Communication-II

SEMESTER - IV

- 1. Financial Accounting IV
- Management Accounting I
- 3. Taxation II
- 4. Commerce II
- Business Law III
- 6. Information Technology II
- 7. Quantitative Methods for Business II

SEMESTER - VI

- 1. Financial Accounting VII
- Cost Accounting IV
- 3. Auditing III
- 4. Financial Accounting VIII
- Taxation IV
- 6. Management II

Objective & Scope: The objective of this Degree is to impart in depth theoretical as well as practical knowledge to Commerce students in the area of Accounting, Auditing & Financial Management. This enables them to compete effectively in the Job market.

The Degree is ideally suitable for those students who wish to pursue higher education in the form of C. A; (Chartered Accountant), C. F.A, (Chartered Financial Analyst) and C. W.A. (Cost & Works Accountant).

F.Y.B.Sc. IT (INFORMATION TECHNOLOGY)

,					
	SEMESTER - I			SEMESTER - II	
ſ	1.	Professional Communication Skills	1.	Web Designing and Programming	
1	2.	Applied Mathematics - I	2.	Applied Mathematics - II	
1	3.	Fundamentals of Digital Computing	3.	Microprocessor & Microcontrollers	
1	4.	Electronics & Communication Technology	4.	Database Management Systems	
L	5.	Introduction to C++ Programming	5.	Data Communication and Networking Standards	

S.Y.B.Sc. IT (INFORMATION TECHNOLOGY)

	,		
	SEMESTER - III		SEMESTER - IV
1.	Logic and Discrete Mathematics	1.	Software Engineering
2.	Computer Graphics	2.	Multimedia
3.	Advanced SQL	3.	Java and Data Structure
4.	Object Oriented Programming with C++	4.	Quantitative Techniques
5.	Modern Operating System	5.	Embedded Systems

T.Y.B.Sc. IT (INFORMATION TECHNOLOGY)

SEMESTER - V		SEMESTER - VI	
1.	Network Security	1.	Internet Technology
2.	Asp .Net With C#	2.	Project Management
3.	Software Testing	3.	Data Warehousing
4.	Advanced Java	4.	Elective (Select One)
5.	Linux Administration		a. IPR and Cyber Lawsb. Digital Signal And Systemsc. Geographics Information Systems
		5.	Project Report & Project Viva Voce

Computer Lab

The college has a fully equipped computer lab consisting of 105 computers and with 100 Mbps LAN & 10 Mbps lease line connection (Ratio 1:1) integrated with 8 Switches and All in one printer, DeskJet, and LaserJet S Printers. The students are permitted to extensively use the computer facility with one student per Computer.

Teaching Equipment

The Department uses Net meeting, Video conferencing, Multimedia Facility and a Seminar Hall along with all the facilities required for the seminar.

Achievements of students of B.Sc. (Computer Science & IT)

Our student Miss Indu Purushottam was Top Ranker in the Merit list of TYB.Sc. (IT) at University of Mumbai in June 2004. Miss. Anima Sinha stood IInd in Mumbai University in Year 2006-07.



B. Sc. COMPUTER SCIENCE (B.Sc. CS)

F.Y.B.Sc (Computer Science)

Sem - I	Sem - II		
1. Computer Organization - I	1. Computer Organization -II		
2. Algorithms and Programming in C - I	2. Algorithms and Programming in C-II		

In addition, a student has to take 2 papers of Mathematics, 2 papers of Physics & 1 paper of Foundation Course

S.Y.B.Sc (Computer Science)

	Sem - III	Sem - IV		
1.	Discrete Mathematics	1.	Computer Graphics	
2.	C++ Programming	2.	Java Programming	
3.	Data Base Management System - I	3.	Software Engineering	

In addition, a student has to take 3 papers of Mathematics and 1 paper of Foundation Course

T.Y.B.Sc (Computer Science)

Sem - V		Sem - VI		
1.	Data Communication, Networking & Security-I	1.	Data Communication, Networking & Security-II	
2.	Advanced Java - I	2.	Advanced Java - II	
3.	Operating Systems	3.	Linux	
4.	Database Management System - II	4.	Software Engineering	
5.	Principles of Web Design & Web Technologies-I	5.	Principles of Web Design & Web Technologies-II	

B. Sc. INFORMATION TECHNOLOGY (B.Sc. IT)

As per university ordinance 5051; A candidate for being eligible for admission to EYBSC. (IT) degree course shall have XII std. exam with Maths and Stats as one of the subjects 45% marks in aggregate for open category and 40% marks in aggregate in case of Reserve category candidate.

Objectives of B.Sc. IT

The B. Sc. IT at Viva College aims to synergise Information Technology in its entire ramifications.

To meet the objectives the program is designed to provide basic input in various aspects and a broad understanding of IT and its interdisciplinary interface. The focus of the program is IT and Management of Information Technology.

In today's world of cyberspace, information, communication and information technologies are buzzwords for entity's success. These entities can be person, business, industries or research and development. Today merely getting information is not that important, as it is important to get the right information at right time & to communicate at the right place.

This could be possible by adopting technology and technological know-how.

The world is looking out for information with speed and accuracy and for this we require information technology Every business today is information technology enabled. Since it is IT enabled world, students of information technology has job opportunity not only in computer industry but also in Engineering, Military; Data Communication and the list goes on and on Eligibility Criteria for Admission to B.Sc.

- H.S.C. passed with minimum 45% for GENERAL category and 40% for RESERVED category Students with Mathematics as compulsory subject in one and the same sitting.
- Direct admission to second year B.Sc. IT for Engineering Diploma passed students. (subject to availability of seats).



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BACHELOR OF COMMERCE IM BANKING & INSURANCE (BCBI)

Eligibility: Minimum 45°/o for GENERAL Category & Minimum 40°/o for RESERVED Category in H.S.C. (Commerce) in aggregate AT ONE & THE SAME SITTING at first attempt.

Structure: This is a Semester pattern Degree in which examination is conducted & result is declared at the end of each semester. Each subject has examination of 100 marks comprising 40 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 60 marks of Theory paper.

Passing Standards : Internal Assessment - Min. 16 out of 40

> Theory Paper - Min. 24 out of 60 Total Marks - Min. 40 out of 100

F.Y.B.CBI

SEMESTER - I

- Environment & Management Of Financial Services
- Principles of Management
- 3. Effective Communication-I
- Economics-I (MICRO) 4.
- Quantitative Methods-I
- Introduction to Computer Systems

S.Y.B.CBI

SEMESTER - III

- Laws Governing Banking & Insurance
- Financial Management-I
- 3. Management Accounting
- Customer Relationship Management in B & I 4.
- IT. In Banking & Insurance
- Organizational Behaviour 6.
- 7. Taxation of Financial Services

T.Y.B.CBI

SEMESTER - V

- Marketing in B & I
- Financial Services Management
- 3. International Banking & Finance
- 4. Financial Reporting & Analysis
- Security Analysis & Portfolio Mgmt.
- 6. Auditing
- Project Work (Banking)

SEMESTER - II

- Principles & Practices for Banking & Insurance
- Financial Accounting
- Effective Communication-II
- Economics-II (MACRO)
- 5. Quantitative Methods-II
- **Business Law**

SEMESTER - IV

- Universal Banking
- Financial Management-II
- Innovation in Banking & Insurance
- Corporate Laws & Laws Governing Capital Market 4.
- 5 Entrepreneurship Management
- Financial Markets (Equity, Debt, Forex and Derivatives) 6.
- Cost Accounting of B & I

SEMESTER - VI

- Strategic Management
- Central Banking
- 3. International Business
- Human Resource Management in B & I
- Bus. Ethics & Corporate Governance
- Turnaround Management 6.
- Project Work (Insurance)

Objective & Scope: The objective of this Degree is to impart in depth theoretical as well as practical knowledge to Commerce students in the area of Banking, Insurance (Life Insurance as well as General Insurance) & other Financial Services. This will empower them to take advantage of a vast arena of opportunities nowadays available in Financial Services sector in general & the Banking & Insurance sectors in particular.

The Degree is ideally suitable for those students who wish to pursue a career in Financial Services sector, especially in the area of Banking & Insurance.



BACHELOR OF MANAGEMENT STUDIES (BMS)

Eligibility: 1. Passed H.S.C. Examination at First attempt (Arts / Commerce / Science) of Maharashtra State Board of Higher Secondary Education or any examination recognized as equivalent thereto/ or Diploma in any Engineering branch. Percentage required Open Category 45%, Reserved category 40%.

Structure: This is a Semester pattern Degree in which examination is conducted & result is declared at the end of each semester. Each subject has examination of 100 marks comprising 40 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 60 marks of Theory paper.

Passing Standards: Internal Assessment - Min. 16 out of 40

Theory Paper - Min. 24 out of 60

The course in BMS effectively covers subjects related to General Management and its Major Function, Finance, Marketing, Human Resource Management, Business Law & Computer Applications.

FYBMS

SEMESTER - I

- 1.1 Foundation of Human Skills
- 1.2 Introduction to financial Accounts
- 1.3 Business Law
- 1.4 Business Statistics
- 1.5 Principles of Management
- 1.6 Introduction to Computers
- 1.7 Business Communication

SYBMS

SEMESTER - III

- 3.1 Management Accounting
- 3.2 Managerial Economics-II
- 3.3 Marketing Management
- 3.4 Business Aspects in Banking & Insurance
- 3.5 Production Mgmt. & Materials Mgmt.
- 3.6 Strategic Management

TYBMS

SEMESTER - V

- 5.1 Human Resource Management
- 5.2 Service Sector Management
- 5.3 Financial Management
- 5.4 Elements of Logistic and Supply Chain Management
- 5.5 Business Ethics and Corporate Social Responsibility
- 5.6 Elective
 - (i) Special Studies in Marketing or
 - (ii) Special Students in Finance
 - (iii) E-Commerce

SEMESTER - II

- 2.1 Business Environment
- 2.3 Industrial Law
- 2.3 Computer Applications in Business
- 2.4 Managerial Economics I
- 2.5 Business Mathematics
- 2.6 Introduction to Cost Accounting
- 2.7 Environmental Management

SEMESTER - IV

- 1.1 Productivity & Quality Management
- 4.2 Direct & Indirect Taxes
- 4.3 Export & Import Procedure and Documentation
- 4.4 Co-operatives & Rural Marketing
- 4.5 Research Methods in Business
- 4.6 Public Relations Management

SEMESTER - VI

- 6.1 Entrepreneurship and Management of Small and Medium Enterprises
- 6.2 Operations Research
- 6.3 International Finance
- 6.4 Indian Management Thoughts & Practices
- 6.5 International Marketing
- 6.6 Retail Management
- 6.7 Investment Analysis and Portfolio Management.

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(iii) Econometrics

5.7 Project Work

Scope: The BMS Degree offers the students not only Theoretical knowledge of Management & its Functional areas like Marketing & Financial Management, but also imparts Practical knowledge through various sources like - Projects (Individual & Group), Presentations (with the help of LCD Projector & Over Head Projector), Analysis of real life Case Studies & Industrial visits in every academic year to reputed companies.



PROSPECTUS 2014-2015

SCIENCE LABORATORIES

Chemistry Lab is divided in three sections. The First section of the laboratory has a capacity to accommodate 100 students and the second section has a capacity to accommodate 48 students. The third section is laboratory of Physical & Analytical chemistry has a capacity to accommodate 40 students. The total capacity of Chemistry lab is 188 students.

The laboratory is sufficiently spacious to enable the students to perform practical without overcrowding. Each student is provided with a separate locker to keep the apparatus & other belongings. The laboratory is well equipped with all necessary chemicals: Scinstruments.

Department of Physics have five laboratories.

- Main Physics Lab (Capacity 100 students)
- 2) Dark room (Capacity 20 students)
- 3) Electronics lab I (Capacity 40 students)
- 4) Electronics lab ll (Capacity 25 students)
- 5) Computer lab (Capacity 20 students)

OBJECTIVE AND SCOPE:

The objective of Physics graduate degree is to impart in depth theoretical as well as practical knowledge of science to the students in the area of Physics. Graduates of Physics have better opportunities in various fields like defense, Research & development, radiology, information Technology, etc.

BIOLOGICAL SCIENCES

Department of Biological Sciences includes 5 laboratories - Biology (1 Lab), Biotechnology (2 Labs) & Botany and Zoology (1 Lab).

- A] Biology Lab: The Biology Lab (for Junior College) has a capacity to accommodate 100 students. The Lab has excellent natural light & ventilation and is ideally suitable for performing Biological microscopic work.
- $B] \qquad Botany\,\&\,Zoology\,Lab: The\,Botany\,Sc\,Zoology\,Lab\,(for\,Degree\,College)\,has\,a\,capacity\,to\,accommodate\,30\,students.$
- C] Biotechnology Labs: The Department of Bio-Technology has three well equipped laboratories.
- Lab I Plant Tissue Culture (PT C)
 Lab (Air-conditioned) Capacity 20 students.
- Lab II General Lab. Capacity 50 students.
 - Centralised Instrumentation Laboratory.
 - Agriculture Laboratory for soil & water analysis.
 - Advanced Research Centre for R&D.

B. Sc. COMPUTER SCIENCE (B.Sc.CS)

H.S.C. with mathematics and passed in one sitting.

Objectives of B. Sc. (Computer Science)

The IT sector, apart from contributing immensely to the growth of the economy, has thrown open the door to a plethora of opportunities and challenges. As IT business grew exponentially, in terms of size, geography, complexity and competition, the need for industry specialized education, too has increased by leaps and bounds.

Towards this end, B. Sc. (Computer Science) now offers perfectly designed course pattern to keep pace with the changing times and technology. The basic objective of this course is to impart advanced and appropriate management and technology skills coupled with the latest techniques in the Field of Electronics and Computers.



S.Y.B.Sc. SEMESTER III AND SEMESTER IV (BIOTECHNOLOGY)

COURSE CODE	NOMENCLATURE	CREDITS			
	SEMESTER-III				
USBT301	Microbial growth kinetics, Biotechnology Medical Applications Microbiology of Air, Microbiology of Water Fermented and media Sterilization	2			
USBT302	Chromosomal basis of inheritance, Sex linkage Genetic Recombination Replication of DNA DNA damage and repair Study of choromosome Gene mutation	2			
USBTP303	Enzymes Enzyme regulation Catabolism Amino acid metabolism Chromatography, Colorimeter	2			
USBTP3	Practical based on above topics	3			
	SEMESTER-IV				
USBT401	 Biotechnology Medical Applications Virology Microbiology of Waste water, Microbiology of soil Types of fermetor Industrial Microbiology 	2			
USBT402	Genetic Tools Genetic mapping in eukayotes Transcription Translation Determination of sex Non Mendelian genetics	2			
USBTP403	Bioenergetics Vitamins and Coenzymes Oxidative and reductive Phosphorylation Photopheshorylation Microscope Electrophoresis	2			
USBTP4	Practical based on above topics	3			

(Note: In addition to above the student has to appear for a course in chemistry and Foundation course to earn remaining 11 credits each semester)

T.Y.B.Sc. SEMESTER V AND SEMESTER VI (BIOTECHNOLOGY

COURSE CODE	NOMENCLATURE	CREDITS
	SEMESTER-V	
USBT501	Cell biology and ATC	2.5
USBT502	• Immunology Biology	2.5
USBT503	Molecular Biology	2.5
USBT504	Industrial Biotechnology	2.5
USBTP5 and USBTP6	Practical based on above theory topics	3+3
Applied Component	Practical based on above theory topics	(2+2)
	TOTA	AL 20
	SEMESTER-VI	
USBT601	Medical Microbiology, Bio statistics Bio Informatics	2.5
USBT602	Endocrinology and Instrumentation	2.5
USBT603	Principles Gene Cloning & Recombined DNA Tech.	2.5
USBT604	Plant Biotechnology & Environmental Biotech.	2.5
USBTP6 and USBTP6	Practical based on above theory topics	3+3
Applied Component	Horticulture and Gardening (Theory + Practs)	(2+2)
	TOTA	AL 20



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The main advantage of this Degree over other Professional as well as Non-Professional Degrees is that it covers many diversified subjects and does not restrict the knowledge of students to one or two particular sectors. This helps the students in availing of employment opportunities in almost any industry, whether it is manufacturing or service industry.

BACHELOR OF MASS MEDIA (BMM)

Eligibility: Passed HSC. Examination (Arts / Commerce / Science) of Maharashtra State Board of Higher Secondary Education or any examination recognized as equivalent thereto.

Structures: This is a Semester pattern Degree in which examination is conducted & result is declared at the end of each semester. Each subject has examination of 100 marks comprising 40 Marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 60 Marks of Theory paper.

Passing Standards: Internal Assessment - Min. 16 out of 40

> Theory Paper - Min. 24 out of 60 Total Marks - Min. 40 out of 100

Each Subject SYLLABUS

F.Y.BMM

SEMESTER - I

- Effective Communication Skills-I
- 2. Fundamentals of Mass communication
- 3. Introduction to Computers
- Landmark events in 20th Century History of world, India & Maharashtra
- Introduction to Sociology, the sociology of news & social movement in India
- Introduction to Economics

S.Y.BMM

SEMESTER - III

- Introduction to Creative Waiting
- Introduction to Culture Studies
- Introduction to Public Relations
- 4. Introduction to Media Studies
- **Understanding Cinema**
- Advanced Computers

T.Y.BMM

SEMESTER - V (Journalism)

- 1. Press Laws and Ethics
- Broadcast Journalism
- 3. Internet and Issues in the Global Media
- 4. News Media Management
- 5. Niche Journalism I & II
- Contemporary Issues

SEMESTER - II

- Effective Communication Skills-II
- Political Concepts & Indian Political System
- 3. Principles of Mgmt. and Mktg.
- 4. Introduction of Psychology
- 5. Translation skills
- An Introduction to literature 6

SEMESTER - IV

- Introduction to Advertising
- Introduction to journalism
- 3. Print Production and Photography
- Radio & Television
- Mass Media Research
- Organizational Behaviour

SEMESTER - VI (Advertising)

- Advtg. and Mktg, Research
- Legal Envi. and Advtg. Ethics
- Financial Mgmt. for Mktg. and Advtg.
- Agency Management
- The Principles & Practices of Direct

6. Contemporary Issues

This Degree covers in depth subjects related to Advertising, Journalism, Public Relations & Mass Communication. The students have an option of opting for either journalism or Advertising in the Third Year. The department has a well equipped Audio - Visual laboratory fitted with LCD Projector, Television, and Music-System. The students utilize these facilities to keep themselves conversant with the latest development around the world in the field of media & advertising. Seminars related to Cinema, journalism and Advertising are regularly conducted by the department.

PROSPECTUS 2014-2015



Scope: For Advertising -

There is a wide scope in the field of Advertising. A student completing BMM with specialization in Advertising can work as:

- Copywriter 1.
- 2. Graphic Designer
- 3. Layout Designer
- Media Planner
- Visualizer
- 6. Art Director
- Setting up a new Advertising Agency

Scope: For Journalism -

A student completing BMM with specialization in Journalism can work in following areas:

- 1. Reporting
- 2. Editing
- 3. Broadcast journalism
- **Public Relations**

SCIENCE FACULTY

The academic year is divided into two Semester I & II. Examination (theory & practical) is held at the end of each Semester.

F.Y. B.Sc.

A student can opt for anyone of the following groups -

- Chemistry, Physics, Mathematics 1.
- 2. Chemistry, Botany, Zoology
- Computer Science, Mathematics, Physics 3.
- Bio-Technology Chemistry, Botany
- Biochemistry, Chemistry, Botany

In addition, one paper of Foundation Course-I is common & compulsory for all groups.

S.Y.B.Sc.

A student can Opt for anyone of the following groups depending upon the group selected in FYB. Sc.

- Chemistry & Physics
- 2. Chemistry & Botany Chemistry & Zoology Computer Science & Mathematics
- Mathematics & Physics

Bio-technology & Chemistry

- Chemistry & Biochemistry
 - In addition, one paper of Foundation Course-II is common & compulsory for all groups.

T.Y. B. Sc.

A student can opt for any one of the following subjects as the major subject depending upon the group selected in S. Y B. Sc. by the student-

1. Chemistry Mathematics 2. Computer Science Botany Bio-technology Zoology Physics Biochemistry

Students will not be allowed to change the group or subject/s once selected without the permission of the Principal.



PROSPECTUS 2014-2015

B.Sc. (Biotechnology)

Eligibility: 0.5108 A Candidate for being eligible for admission to the Three year Integrated course leading to the degree of Bachelor of Science (B.Sc.) must have passed Higher Secondary School Certificate Examination (Std.XII) in Science conducted by the Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent in Science stream.

Admission will be on merit, based on order of preference as follows:

- ✓ Aggregate Marks at H.S.C. or equivalent.
- ✓ Aggregate Marks in Science Group (Physics, Chemistry and Biology).

Admission will be on merit, based on order of preference as follows:

- Marks in Biology and Chemistry.
- ✓ Marks in Biology.

A candidate who has not offered Mathematics and Statistics as one of the Subjects at H.S.C. (Std.XII) shall have to satisfactorily complete a course on Mathematics and Statistics (of 15 hours duration) during the academic year of First year B.Sc. in which he / she is admitted.

The University of Mumbai has introduced CBSGS (Credit Based System Grading System from 2011-2012 where in the entire program is divided into Six semesters spread in the span of three years (two semesters per year). The student who enrolls for the degree program have to accumulate 20 credits per term and the degree will be conferred only when the student accumulates 120 credits during the period of Six semesters.

 $The students who enroll for B.Sc\ Biotechnology\ has following\ combinations\ for\ the\ period\ of\ three\ years$

Foundation course First year- Semester I and Semester II

Chemistry - Biotechnology - Botany (2 papers + practical Each)

Second year- Semester III and Semester IV : Foundation course

Chemistry - Biotechnology (3 papers + practical Each)

First year-Semester V and Semester VI Biotechnology (Four papers + two Practical)

> Applied component Horticulture and Gardening (1 paper and practical)

F.Y.B.Sc. SEMESTER - I (BIOTECHNOLOGY)

COURSE CODE	NOMENCLATURE	CREDITS		
	SEMESTER-I			
USBT101	Microbiology Genetics Microbial Diversity and Functional Biology	2		
USBT102	Cell BiologyBiomoleculesMedical Biotechnology	2		
USBTP1	Practical based on above topics	2		

F.Y.B.Sc. SEMESTER - II (BIOTECHNOLOGY)

COURSE CODE	NOMENCLATURE	CREDITS			
	SEMESTER-I				
USBT201	Microbiology Genetics Microbial Diversity and Functional Biology	2			
USBT202	Cell Biology Biomolecules Medical Biotechnology	2			
USBTP2	Practical based on above topics	2			

(Note: In addition to above the student has to appear for a course in chemistry, Botany and Foundation course to earn remaining 14 credits each semester)