



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

VIRAR

(VIVA COLLEGE)

AFFILIATED TO UNIVERSITY OF MUMBAI

AND

UTKARSHA JUNIOR COLLEGE

Prospectus

2015-16



VIVA COLLEGE, VIRAR (W)

Tel.: (0250) 2515276 / 77 / 78 www.vivatrust.org



COLLEGE OF

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 Junior College, Nallasopara (East)

CONTENTS

1. VISION	3
2. MISSION	3
3. OBJECTIVES OF THE TRUST	3
4. PREFACE	3
5. TRUSTEES & MANAGING COMMITTEE MEMBERS	5
6. RULES OF DISCIPLINE & PROPER CONDUCT	6
7. ADMISSION RULES & REGULATIONS	10
8. ACADEMIC COURSES - JUNIOR COLLEGE	14
9. ACADEMIC COURSES - DEGREE COLLEGE	15
10. ARTS FACULTY (B.A.)	16
11. COMMERCE FACULTY (B. Com.)	17
• B. Com in FINANCIAL MARKETS	18
• B. Com. in ACCOUNTING & FINANCE (BCAF)	20
• B. Com. in BANKING & INSURANCE (BCBI)	21
• BACHELOR OF MANAGEMENT STUDIES (BMS)	22
• BACHELOR OF MASS MEDIA (BMM)	25
12. SCIENCE FACULTY (B. Sc.)	27
• B. Sc. BIO-TECHNOLOGY	28
• SCIENCE LABORATORIES	31
• B. Sc. COMPUTER SCIENCE (C. S.)	32
• B. Sc. INFORMATION TECHNOLOGY (I.T.)	33
13. POST GRADUATE DEGREES	35
14. HOTEL MANAGEMENT (BHTMS)	46
• COLLEGE LIBRARY / OTHER FACILITIES	48

Vision

Viva College strives to create an excellent platform of growth for student with its infrastructural 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 or community.
3. To promote and impart all kind of education including medical education and to establish, assist and 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, sanitoriums, 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.
6. To state, maintain and assist 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 & 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 & 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 10 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.), degree in various branches. The Trust also runs College of Architecture, Fine Arts, Pharmacy and M.C.A. too

Presently, the approximate total Student 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 conducted at the degree level are on no grand basis with financial support from the Trust only.

Despite the fact that 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 (T.Y.B.Sc.IT) stood IInd in Bombay University.

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 & 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** President
2. **Shri Mukund Raghunath Padhye** Secretary
3. **Shri Purushottam Dattatray Kodolikor** Trustee
4. **Shri Pradeep Vishnu Tendolkar** Trustee

Principal

DEGREE

Dr. RAVIKIRAN D. BHAGAT

M.Sc., M.Phil., Ph. D.

JR. COLLEGE

Mrs. KALPANA RAUT

Utkarsha Junior College

Vice - Principal

Mrs. PRAJAKTA PARANJAPE

MA, M.Com, M. Phil.

Dr. C. L. MARATHE

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

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 gymkhana.
- 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 these 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 METRES 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 Ordinance – 0.119 Relating to 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 a penalty of Rs. 500 for the first offence. In case of a repetition of the offence it shall be liable to confiscation.

5. Students are required to take adequate care of their belongings while on the college premises. Management will not be responsible for any theft/damage to the same.
6. Students are hereby warned not to sit on parapet walls.
7. 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.
- b) Whosoever directly or indirectly commits, participates in 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.

- c) 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 educational 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.

1. **ELIGIBILITY:** As specified by the University of Mumbai

(For Degree college) & 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.**

2. 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 -

- a) Mark list of S.S.C. / H.S.C. Examination in original with three attested photocopies.
 - b) School/Junior College leaving certificate (Original with two attested photocopies)
 - c) A passport size recent photograph of the applicant affixed to the prescribed application form.
 - d) Eligibility certificate issued by the Board or University of Mumbai (Applicable for students from other Board or University).
 - e) An undertaking to fulfill certain conditions with regard to discipline, attendance / project work / tutorials etc.
3. All Reserved / Non-General Category students (e.g. SC/ST/DT/NT/OBC/EBC etc.) should produce necessary certificates / proof while seeking admission in any Reserved category.
 4. 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.

5. 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.
6. Once a student is admitted to the college he/she shall be liable to pay full fees for the whole term/semester.
7. 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.
9. 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.
10. Seats are reserved for Backward class Students as per Government Rules.
11. The fees mentioned herein may be changed as per the University guidelines or discretion of the College.
12. 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. (BOTH THE STUDENTS)
5.	Mutual / Mass copying	Exclusion of the student from University or College or Institution examination for three additional examinations.

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 thereon	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 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./Sr. 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 answerbook 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.	Annulment 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 malpractices 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.
17. Practical/ Dissertation/Project report Examination. Student involved in malpractices at Practical/ Dissertation/Project report examinations shall be dealt with as per the punishment provided for the theory examination.
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)

ACADEMIC COURSES

JUNIOR COLLEGE

FACULTY & MEDIUM	SUBJECT
Arts (Marathi)	Compulsory subjects - Marathi, English, Economics, History. / E.V.S. Optional subjects - 1. Hindi / IT, 2. Geography / Stenography.
Arts (English)	Compulsory subjects - Political Science, English, Economics, History. / E.V.S. Optional subjects - 1. Hindi / IT, 2. Geography/Stenography/French/Psychology
Commerce	Compulsory subjects - English, Economics, Accounts & Book Keeping, O. C. /E.V.S. Optional subjects - 1. Marathi / Hindi / IT/French 2. S. P. / Maths / Stenography. Additional subjects - I. 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).

ACADEMIC COURSES

DEGREE COLLEGE

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/ Botany / Zoology / Biochemistry / Computer Science
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. (Information Technology)
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) BFM (B. Com. in Financial Markets)

POST GRADUATE DEGREES

M. A. Economics	M. Sc. (Biotechnology)
M. A. Psychology	M. Sc. (Bio analytical Sciences)
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 Sciences)
M. Sc. (Information Technology)	M. Sc. (Physics-Electronics)
M. Sc. (Computer Science)	

ARTS FACULTY

Bachelor of Arts (Marathi & English Medium)

Eligibility :- H.S.C passed in any faculty

An academic year is divided into two semesters and an examination is conducted at the close of each semester. Each paper will carry 75 marks, Theory Semester Pattern.

Passing Standard : 30 out of 75 in Theory, 10 out of 25 in Internal. [Combined marks of Sem I & Sem II]

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

- | | |
|--|--|
| 1. Foundation Course-paper I
Social Awareness & Personality
Development etc. | 4. Economics-Paper I/ English Literature - I |
| 2. Communication Skills in English | 5. Political Science-Paper I |
| 3. Hindi/Marathi (Language)-Compulsory | 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)

OR

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

OR

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

Objectives & Scope :- The objective of this Degree is to impart knowledge to the Arts students regarding National & International Political situation of modern days, Historical background of the country & the world and gather knowledge regarding national & international economic condition.

Their career - This Degree is beneficial for those students who want to build in teaching, Law, Journalism, MPSC, UPSC, Finance Sector etc.

COMMERCE FACULTY

F.Y. B.Com List of Subjects

	SEM - I	SEM - II
CORE COURSES		
1.	Accountancy & Financial Management - I	Accountancy & Financial Management - II
2.	Commerce - I (Introduction to Business)	Commerce - II (Service Sector)
3.	Business Economics - I	Business Economics - II
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

S.Y. B.Com List of Subjects

	SEM - III	SEM - IV
CORE COURSES		
1.	Accountancy & Financial Management - III	Accountancy & Financial Management - IV
2.	Commerce - III (Management : Functions and Challenges)	Commerce - IV (Management : Production and Finance)
3.	Business Economics - III	Business Economics - IV
ALLIED COURSES		
4.	Business Law - I	Business Law - II
5.	Advertising (Applied Component) - I	Advertising (Applied Component) - II
6.	Foundation Course	Foundation Course

**T.Y. B.Com
List of Subjects**

	SEM - V	SEM - VI
CORE COURSES		
1.	Commerce : Paper V - M.H.R.M (Marketing)	Commerce : Paper VI - Human Resource Management
2.	Business Economics : Paper V	Business Economics : Paper VI -
3.	Financial Accounting & Auditing : Paper V - Financial Accounting	Financial Accounting & Auditing : Paper VIII - Financial Accounting
ALLIED COURSES		
4.	Financial Accounting & Auditing : Paper VI - Cost Accounting	Financial Accounting & Auditing : Paper IX - Cost Accounting - Methods & Techniques
5.	Financial Accounting & Auditing : Paper VII- Management Accounting	Financial Accounting & Auditing : Paper X - Related Applied Component - Introduction to Auditing
6.	Applied Component Group : Paper I : Direct & Indirect Taxes, Paper - I Direct Tax	Applied Component Group : Paper II : Direct & Indirect Taxes, Paper 2 - Indirect Taxes
INTERDISCIPLINARY		
7.	Computer Systems and Applications	Computer Systems and Applications

**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.

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 25 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 75 marks of Theory paper.

Passing Standards: Internal Assessment - Min. 10 out of 25

Theory Paper - Min. 30 out of 75

Total Marks - Min. 40 out of 100

SEMESTER-I

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

SEMESTER-III

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

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-II

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

SEMESTER-IV

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

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 25 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 75 marks of Theory paper.

Passing Standards: Internal Assessment - Min. 10 out of 25

Theory Paper - Min. 30 out of 75

Total Marks - Min. 40 out of 100

F.Y.B.CAF

SEMESTER-I

1. Financial Accounting-I
2. Cost Accounting-I
3. Economics-I
4. Commerce-I
5. 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
5. Business Law-II
6. Management-I
7. Quantitative Methods for Business

SEMESTER-V

1. Financial Accounting-V
2. Cost Accounting-III
3. Financial Accounting-VI
4. Management Accounting-II
5. 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 Management -II
2. Management Accounting-I
3. Taxation-II
4. Commerce-II
5. Business Law-III
6. Information Technology-II
7. Foundation Course

SEMESTER-VI

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

Objective & Scope: The objective of this Degree is to impart in depth with 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).

Bachelor of Commerce in Banking & Insurance (BCBI)

Eligibility: Minimum 45% for GENERAL Category & Minimum 40% 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 25 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 75 marks of Theory paper.

Passing Standards: Internal Assessment - Min. 10 out of 25

Theory Paper - Min. 30 out of 75

Total Marks - Min. 40 out of 100

F.Y.B.CBI

SEMESTER-I

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

SEMESTER-II

1. Principles & Practices for Banking & Insurance
2. Financial Accounting
3. Effective Communication-II
4. Economics-II (MACRO)
5. Quantitative Methods-II
6. Business Law

S.Y.B.CBI

SEMESTER-III

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

SEMESTER-IV

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

T.Y.B.CBI

SEMESTER-V

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

SEMESTER-VI

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

Objective & Scope: The objective of this Degree is to impart in depth with 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 25 marks of Internal Assessment (Projects, Presentations, and Case studies etc.) & 75 marks of Theory paper.

Passing Standards: Internal Assessment - Min. 10 out of 25

Theory Paper - Min. 30 out of 75

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

VIVA COLLEGE OF ARTS, COMMERCE & SCIENCE BMS DEPARTMENT

Changes to be done in the Prospectus for the academic year 2015-16 (Page no. 16)

FYBMS :

Semester-I	Course Code	Semester-II	Course Code
1.1 Foundation of Human Skills	UBMSFI.1	2.1 Business Environment	UBMSFII.1
1.2 Introduction to Financial Accounts	UBMSFI.2	2.2 Industrial Law	UBMSFII.2
1.3 Principles of Management	UBMSFI.3	2.3 Managerial Economics-I	UBMSFII.3
1.4 Business Law	UBMSFI.4	2.4 Business Mathematics	UBMSFII.4
1.5 Business Statistics	UBMSFI.5	2.5 Introduction to Cost Accounting	UBMSFII.5
1.6 Business Communication	UBMSFI.6	2.6 Computer Applications in Business	UBMSFII.6
1.7 Introduction to Computers	UBMSFI.7	2.7 Environmental Management	UBMSFII.7

Specialization to be offered to Learners from Semi. III onwards :

- 1 Finance or
- 2 Marketing or
- 3 Human Resource Management

SEMESTER	COMPULSORY PAPERS	SPECIALISATION PAPERS
III	4	2
IV	4	2
V	2	4
VI	3	4

SYBMS:

Semester	Course Title	Course Code	
Semester III	Compulsory Courses		
	1. Managerial Economics – II	UBMSFSIII.1	
	2. Principles of Marketing	UBMSFSIII.2	
	3. Accounting for Managerial Decisions	UBMSFSIII.3	
	4. Organization Behaviour & HRM	UBMSFSIII.4	
	Any One Elective group to be selected by the learner		
	Finance Group– Electives		
	1. Basics of Financial Services	UBMSFSIII.5	
	2. Corporate Finance	UBMSFSIII.6	
	Marketing Group– Electives		
	1. Consumer Behaviour	UBMSFSIII.7	
	2. Strategic Management	UBMSFSIII.8	
	Human Resource Group– Electives		
	1. Recruitment and Selection	UBMSFSIII.9	
2. Motivation and Leadership	UBMSFSIII.10		

Semester	Course Title	Course Code	
Semester IV	Compulsory Courses		
	1. Business Planning & Entrepreneurial Mgmt	UBMSFSIV.1	
	2. Business Research Methods	UBMSFSIV.2	
	3. Direct Taxes	UBMSFSIV.3	
	4. Production & Total Quality Management	UBMSFSIV.4	
	Any One Elective group to be selected by the learner		
	Finance Group– Electives		
	1. Advanced Costing & Auditing	UBMSFSIV.5	
	2. Equity & Debt Market	UBMSFSIV.6	
	Marketing Group– Electives		
	1. Integrated Marketing Communication & Advertising	UBMSFSIV.7	
	2. Rural Marketing	UBMSFSIV.8	
	Human Resource Group – Electives		
	1. Training and Development in HRM	UBMSFSIV.9	
2. Change Management	UBMSFSIV.10		

TYBMS:

Semester	Course Title	Course Code	
Semester V	Compulsory Courses		
	1. Logistics & Supply Chain Management	UBMSFSV.1	
	2. Ethics & Governance	UBMSFSV.2	
	3. Project Work	UBMSFSV.3	
	Any One Elective group to be selected by the learner		
	Finance Group– Electives		
	1. Investment Analysis & Portfolio Management	UBMSFSV.4	
	2. Commodity & Derivatives Market	UBMSFSV.5	
	3. Wealth Management	UBMSFSV.6	
	4. Strategic Financial Management	UBMSFSV.7	
	Marketing Group– Electives		
	1. Services Marketing	UBMSFSV.8	
	2. E-Commerce & Digital Marketing	UBMSFSV.9	
	3. Sales & Distribution Management	UBMSFSV.10	
	4. Customer Relationship Management	UBMSFSV.11	
Human Resource Group– Electives			
1. Finance for HR Professionals & Compensation Management	UBMSFSV.12		
2. Strategic Human Resource Management & HR Policies	UBMSFSV.13		
3. Performance Management & Career Planning	UBMSFSV.14		
4. Industrial Relations	UBMSFSV.15		

Semester	Course Title	Course Code	
Semester VI	Compulsory Courses		
	1. Operation Research	UBMSFSVI.1	
	2. Indian Ethos in Mgmt.	UBMSFSVI.2	
	3. Corporate Communication & Public Relations	UBMSFSVI.3	
	Any One Elective group to be selected by the learner		
	Finance Group– Electives		
	1. Risk Management	UBMSFSVI.4	
	2. International Finance	UBMSFSVI.5	
	3. Innovative Financial Services	UBMSFSVI.6	
	4. Project Management	UBMSFSVI.7	
	Marketing Group– Electives		
	1. Brand Management	UBMSFSVI.8	
	2. Retail Management	UBMSFSVI.9	
	3. International Marketing	UBMSFSVI.10	
	4. Media Planning & Management	UBMSFSVI.11	
Human Resource Group– Electives			
1. HRM in Global Perspective	UBMSFSVI.12		
2. Organizational Development	UBMSFSVI.13		
3. HRM in Service Sector Management	UBMSFSVI.14		
4. Human Resource Planning & Information System	UBMSFSVI.15		

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.

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)

Objectives :

- To produce graduates with strong academic knowledge and professional skills.
- To produce good students who contribute positively to the society and be the watchdog for the society.
- The course is designed to educate students for significant careers in media world.

Eligibility :

1. Passed H.S.C. Examination (Arts/Commerce/Science) of Maharashtra State Board of Higher Secondary Education or any other examination recognized as equivalent thereto.

Passing Standard :

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester. A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Subject Information :

Semester wise Subjects along with Codes :

Semester 1

Year	Semester	Course	Code	Title of the Course	Credits
1	I	1	UABMM101	Effective Communication I	3
		2	UABMM102	Fundamentals of Mass Communication	3
		3	UABMM103	Introduction to Computer	3
		4	UABMM104	History	3
		5	UABMM105	Introduction to Economics	3
		6	UABMM106	Introduction to Sociology	3

Semester 2

Year	Semester	Course	Code	Title of the Course	Credits
1	II	1	UABMM201	Effective Communication II	3
		2	UABMM202	Introduction to Literature	3
		3	UABMM203	Introduction to Media Psychology	3
		4	UABMM204	Political Concepts and The Indian Political System	3
		5	UABMM205	Principles of Marketing	3
		6	UABMM206	Principles of Management	3

Semester 3

Year	Semester	Course	Code	Title of the Course	Credits
2	III	1	UABMM301	Media Studies	3
		2	UABMM302	Creative Writing	3
		3	UABMM303	Understanding Cinema	3
		4	UABMM304	Public Relations	3
		5	UABMM305	Cultural Studies	3
		6	UABMM306	Advance Computer	3

Semester 4

Year	Semester	Course	Code	Title of the Course	Credits
2	IV	1	UABMM401	Introduction to Advertising	3
		2	UABMM402	Introduction to Journalism	3
		3	UABMM403	Radio and Television	3
		4	UABMM404	Print Production and Photography	3
		5	UABMM405	Organizational Behaviour	3
		6	UABMM406	Mass Media Research	3

Semester 5 TYBMM (AD)

Year	Semester	Course	Code	Title of the Course	Credits
3	V	1	UABMM501	Copy Writing	3
		2	UABMM502	Media Planning & Buying	3
		3	UABMM503	Consumer Behaviour	3
		4	UABMM504	Brand Building	3
		5	UABMM505	Advertising in Con. Soc.	3
		6	UABMM506	AD Design (Practical Paper)	3

Semester 5 TYBMM (JOUR)

Year	Semester	Course	Code	Title of the Course	Credits
3	V	1	UABMM501	Reporting	3
		2	UABMM502	Editing	3
		3	UABMM503	Journalism & Public Opinion	3
		4	UABMM504	Feature and Opinion	3
		5	UABMM505	Indian Regional Journalism	3
		6	UABMM506	News Paper and Magazine Making (Practical Paper)	3

Semester 6 TYBMM (AD)

Year	Semester	Course	Code	Title of the Course	Credits
3	VI	1	UABMM601	Financial Mgmt.	3
		2	UABMM602	Contemporary Issue	3
		3	UABMM603	Agency Management	3
		4	UABMM604	Advertising & Marketing Research	3
		5	UABMM605	Legal Environment and Advertising Ethics	3
		6	UABMM606	Direct Marketing	3

Semester 6 TYBMM (JOUR)

Year	Semester	Course	Code	Title of the Course	Credits
3	VI	1	UABMM601	Press Law & Ethics	3
		2	UABMM602	Internet & Issue in Global Media	3
		3	UABMM603	Broadcast Journalism	3
		4	UABMM604	Business & Magazine Journalism	3
		5	UABMM605	News Media Mgmt.	3
		6	UABMM606	Contemporary Issue	3

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.

Scope:

For Advertising -

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

1. Copywriter
2. Graphic Designer
3. Layout Designer
4. Media Planner
5. Visualizer
6. Art Director
7. 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
4. Public Relations

SCIENCE FACULTY

Eligibility :- Passed H.S.C. Examination (Std XII) in Science conducted by the Maharashtra State Board of Higher Secondary Education or its equivalent in Science stream.

Passing Standards :- Internal Assessment :- min 10 out 25

Theory Paper :- min 30 out of 75

Total marks : min 40 out of 100

F.Y.B.Sc.

A student can opt for anyone of the following groups -

1. Chemistry, Physics, Mathematics
2. Chemistry, Botany, Zoology
3. Computer Science, Mathematics, Physics
4. Biotechnology, Chemistry, Botany
5. Chemistry, Biochemistry, 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 F. Y. B. Sc.

1. Chemistry & Physics
2. Chemistry & Botany
3. Chemistry & Zoology
4. Computer Science & Mathematics
5. Mathematics & Physics
6. Biotechnology & Chemistry
7. Chemistry & Biochemistry
8. Botany & Zoology

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 | 6. Botany |
| 2. Computer Science | 7. Zoology |
| 3. Biotechnology | 8. Biochemistry |
| 4. Physics | |
| 5. Mathematics | |

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

B. Sc. (Biotechnology)

Intake Capacity : 70

Eligibility : 0.5108 A Candidate for being eligible for admission to the Three year Intergrated 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

First year - Semester I and Semester II	:	Foundation course Chemistry - Biotechnology - Botany (2 paper + practical Each)
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Second year- Semester III and Semester IV	:	Foundation course Chemistry - Biotechnology (3 papers + practical Each)
First year - Semester V and VI	:	Biotechnology (Four papers + two Practical)
Applied component	:	Horticulture and Gardening (1 paper and practical)

F.Y.B.Sc. Semester - I (Biotechnology)

F.Y.B.Sc. Biotechnology Syllabus Revised for Credit Based Semester & Grading System To be implemented from the Academic year 2014-15

Bachelor of Science in Biotechnology		Duration : Six Semesters	
	Semester I		
Course Code	Title	Credits	
USBT-101 Theory	Fundamentals of Biotechnology	2 Credits	
Unit - I	Histroy, Introduction, and perspective of Biotechnology		
Unit - II	Basic Microscopy		
Unit - III	Stains and Staining Procedures.		
USBT-102 Theory	Applications of Biotechnology	2 Credits	
Unit - I	Biomolecules I		
Unit - II	Procaryotic and Eucaryotic Cell Structure		
Unit - III	Microbial Nutrition, Cultivation, Isolation & Preservation		
USBT-101	Practicals	2 Credits	
	Semester II		
USBT-201 Theory	Fundamentals of Biotechnology	2 Credits	
Unit - I	Control of Microorganisms		
Unit - II	Plant Tissue Culture		
Unit -III	Animal Tissue Culture		
USBT-202 Theory	Applications of Biotechnology	2 Credits	
Unit I	Biomolecules II		
Unit II	Genetics		
Unit III	Food Biotechnology		

(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)

S.Y.B.Sc Semester III & Semester IV (Biotechnology) : The syllabus would be revised for 2015-16. The same would be made available after reopening of college in June 2015.

T.Y.B.Sc. Semester V and Semester VI (Biotechnology)

COURSE CODE	NOMENCLATURE	CREDITS
SEMESTER - V		
USBT 501	● Cell biology and ATC	2.5
USBT 502	● Immunology Biology	2.5
USBT 503	● Molecular Biology	2.5
USBT 504	● Industrial Biotechnology	2.5
USBT5 and USBT6	● Practical based on above theory topics	3 + 3
Applied Component	● Practical based on above theory topics	(2 + 2)
	Total	20
SEMESTER - VI		
USBT 601	● Medical Microbiology, Biostatistics, Bioinformatics	2.5
USBT 602	● Endocrinology and Instrumentation	2.5
USBT 603	● Principal Gene Cloning & Recombined DNA Technology	2.5
USBT 604	● Plant Biotechnology & Environmental Biotechnology	2.5
USBT 6 and USBT6	● Practical based on above theory topics	3+3
Applied Component	● Horticulture and Gardening (Theory + Practs)	(2+2)
	Total	20

Science Laboratories

CHEMISTRY

Chemistry Lab is divided in four sections. The first section of the laboratory has a capacity to accommodate 100 students & 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 and also there is a separate post graduate laboratory for 48 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 & instruments.

Objectives and Scope:

The objective of the department is to impart knowledge to students to excel in their academics and to meet the challenges in real life.

There are maximum opportunities for students after completion of their graduation / post graduation in diverse fields and industries such as Food Industry, Paint Industry, Polymer Industry, Pharma Ceutical Industry, Cosmetics Industry etc.

DEPARTMENT OF PHYSICS

Department of Physics have five laboratories.

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

Objectives 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 Defence. Research & development, Radiology, Information Technology, etc.

BIOLOGICAL SCIENCES

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

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] Botany & Zoology Lab: The Botany & Zoology Lab (for Degree College) has a capacity to accommodate 30 students.

C] Biotechnology Labs: The Department of Biotechnology has three well equipped laboratories.

Lab I - Plant Tissue Culture (PTC)
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)

Eligibility :- 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.

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

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)

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

Passing Standards : Internal Assesment : Min 10 out of 25

Theory Paper : Min 30 out of 75

Total Marks : 40 out of 100

Objectives of B.Sc. I.T.

The B. Sc. I.T. at Viva College aims to synergisze Information Technology in its entire ramification.

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. I.T.

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

F.Y. B. Sc. I.T. (Information Technology)

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

S.Y. B. Sc. I.T. (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 Structures
4. Object Oriented Programming with C++	4. Quantitative Techniques
5. Modern Operating Systems	5. Embedded Systems

T.Y. B. Sc. I.T. (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) a. IPR and Cyber Laws b. Digital Signal And Systems c. Geographics Information Systems
5. Linux Administration	5. Project Report & Project Viva Voce

Computer Lab

The college has a fully equipped computer lab consisting of 105 computers with and 100 mbps LAN & 10 Mbps lease line connection (Ratio 1:1) integrated with 8 Switches and All in one printer, DeskJet, and LaserJet 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. (IT)

Our student Miss Indu Purushottam was Top Ranker in the Merit list of T.Y.B.Sc. (IT) at University of Mumbai in June 2004.

Miss Anima Sinha stood IInd in Mumbai University in year 2006-07.

POST GRADUATE DEGREES

M. A. Economics

2 Years Degree Course

As per the ordinance and Regulations and Rules of University of Mumbai for M.A. 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 assignment and internal test per subject)

- Eligibility** :
- 1) B.A. in Economics from University of Mumbai or any recognised University with minimum 45%.
 - 2) Provided that applications of graduates of Mumbai University in the faculties other than the faculty of Arts, or those who have passed the equivalent examination of another recognized University seeking admission to M.A. degree course by papers, will be considered by Principal of a college where the Post graduate center is granted.

A written test consisting of 2 papers as under shall be administered in the subject in which the student desires to register for his M. A. degree.

- i) An essay paper in the subject;
- ii) A paper to test the students general acquainted with subject.

Eligibility : 1) B.A. in Economics from University of Mumbai or any recognised University with minimum 45%

No. of Seats : 60

M. A. PART-I

Compulsory	-	Paper I	-	Micro Economics
	-	Paper II	-	Macro Economics
Optional	-	Paper III	-	Agricultural Production & Markets
	-	Paper IV	-	Industrial Economics

M. A. PART-II

Compulsory	-	Paper I	-	Development Economics
	-	Paper II	-	Public Economics
Optional	-	Paper III	-	Agricultural Growth & Development
	-	Paper IV	-	Labour Economics & Industrial Relation

M.Com. Accountancy

2 Years 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. No. of Seats : 60

M.Com Banking & Finance

2 Years 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 No. of Seats : 60

Eligibility Criteria

Master of Commerce (M.Com)	0.2310	<p>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)</p> <p>OR</p> <p>B.Com Banking and Insurance) OR B.M.S degree examination or an examination of any other University recognized as equivalent thereto.</p> <p>OR</p> <p>B.M.M degree examination [only for Management Specialization subjects) at the M.Com. degree levels.</p>
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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 to 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

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-Com.
- 7) MEC 4.7 - Project Report and Viva Voce

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

Semester - I Theory Courses

Course Code	Course Title	Credits
PSCSP101	Analysis of Algorithms and Researching Computing	4
PSCSP102	Advanced Networking Concepts	4

Semester - I Practical Laboratory Courses

Course Code	Course Title	Credits
PSCS101	Analysis of Algorithms and Researching Computing and Advanced Networking Concepts	4
PSCS102	Advanced Database Systems and Robotics and Artificial Intelligance	4
PSCS103	Advanced Database Systems	4
PSCS104	Robotics and Artificial Intelligence	4

Semester - II Theory Courses

Course Code	Course Title	Credits
PSCS201	Advanced Operating System	4
PSCS202	Design and Implementation of Modern Compilers	4
PSCS2031	Elective I-Track A : Cloud Computing (Concepts and Design of Web Services)	4
PSCS2032	Elective I-Track B : Cyber and Information Security (Network Security)	4
PSCS2041	Elective II - Track C : Business Intelligence and Big Data Analytics (Business Intelligence)	4
PSCS2042	Elective II - Track D : Machine Intelligence (Fundamentals of Machine Intelligence)	4

Semester - II Practical Laboratory Courses

Course Code	Course Title	Credits
PSCSP201	Advanced Operating Systems and Design & Implementation of Modern Compilers	4
PSCSP202	Elective I and Elective II	4

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

M. Sc. Information Technology (IT)

ELIGIBILITY:

For admission to M.SC. I.T. the following conditions will apply :

- All the admissions will be on merit. (i.e., percentage, of aggregate marks secured for the qualifying examination.
- Reservation criteria should be followed as prescribed by Government at the time of admission.
- 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 percents 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. Data Mining 2. Distributed System 3. Data Analysis Tools 4. Software Testing	1. Mobile Computing 2. Advanced Computer Networks 3. Cloud Computing and Ubiquitous Systems 4. Advanced Database System

Sem - III	Sem - IV
1. Embedded Systems 2. Information Security Management 3. Elective 1 1. Virtualization 2. Artificial Neural Network 4. Elective 2 1. Digital image processing 2. Ethical Hacking	1. Artificial Intelligence 2. IT Infrastructure Management 3. Elective I : 1. Intelligent Systems 2. Real Time Embedded Systems 3. Computer Forensics Elective II : 1. Design of Embedded Control Systems 2. Advanced Image Processing Cloud Management 4. Project

M. Sc. Environmental Sciences

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 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	PSEVS104	4	PSEVSP104	2

Semester - II

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Environmental Monitoring and Assessment	PSEVS201	4	PSEVSP201	2
2.	Pollution control technology	PSEVS202	4	PSEVSP202	2
3.	Green Technology	PSEVS203	4	PSEVSP203	2
4.	Environment Acts Rules and Regulations	PSEVS204	4	PSEVSP204	2

Semester - III

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Advanced Pollution Control Technology	PSEVS301	4	PSEVSP301	2
2.	Instrumentation and Biostatistics	PSEVS302	4	PSEVSP302	2
3.	Environmental Toxicology	PSEVS303	4	PSEVSP303	2
4.	Industrial Hygiene & Chemical Safety	PSEVS304	4	PSEVSP304	2

Semester - IV

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Eco Technology	PSEVS401	4	PSEVSP401	2
2.	Environmental Biotechnology & Nanotechnology	PSEVS402	4	PSEVSP402	2
3.	Sustainable Management	PSEVS403	4	PSEVSP403	2
4.	Environmental Management	PSEVS404	4	PSEVSP404	2

M. Sc. Bioanalytical Sciences

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, Pharmacognosy & Extraction Techniques	PSBN101	4	PSBNP101	2
2.	GLP, Drug Act and Quality Management	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)	Credits	Course code (Practical)	Credits
1.	Indian Pharmaceutical Industry, Phytochemistry & Extraction Techniques	PSBN201	4	PSBNP201	2
2.	IPR and Patenting, Stability Studies and Packaging	PSBN202	4	PSBNP202	2
3.	Chromatography and Spectroscopy-II	PSBN203	4	PSBNP203	2
4.	New Drug Development, Immunoassays, Pharmacokinetics, Laboratory Safety Measures	PSBN204	4	PSBNP204	2

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	PSBNP304	2

Semester - IV

Sr. No.	Paper Title	Course code (Theory)	Credit	Course code (Practical)	Credit
1.	Basic Microbiology, Genomics, CE and Toxicology-II	PSBN401	4	PSBNP401	2
2.	MS applications, Metabolite studies, Thermal Analysis and Tracer Techniques-II	PSBN402	4	PSBNP402	2
3.	Standardization of ASU drugs, Statistics & GMP-II	PSBN403	4	PSBNP403	2
4.	BA/BE Studies, GCP and Method Validation-II	PSBN404	4	PSBNP404	2

M. Sc. Physics (Electronics) - I

ELIGIBILITY CRITERIA:

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

M.Sc-Part (I)

Semester - I	Semester - II
1. Mathematical Physics	1. Electronics
2. Classical Physics	2. Electro Dynamics
3. Quantum Physics	3. Quantum Mechanics
4. Solid State Device	4. Solid State Physics

M.Sc-Part (II)

Semester - III	Semester - IV
1. Statistical Mechanics	1. Experimental Physics
2. Nuclear Physics	2. Atomic and molecular Physics
3. 8-16 BIT Up	3. Micro controller, Interfacing & Arm 7
4. Programming C++	4. VHDL & Communication Interface

M. Sc. Biotechnology

Intake capacity : 40 seats

Eligibility Criteria : B.Sc. in Biotechnology from University of Mumbai or any equivalent Degree from other university.

Semester - I

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Biochemistry	PSBT101	4	PSBTTP101	2
2.	Immunochemistry	PSBT102	4	PSBTTP102	2
3.	Genome and Transcriptomes	PSBT103	4	PSBTTP103	2
4.	Biophysics	PSBT104	4	PSBTTP104	2

Semester - II

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Metabolomics	PSBT201	4	PSBTTP201	2
2.	Clinical Immunology	PSBT202	4	PSBTTP202	2
3.	Genomics and Molecular biology	PSBT203	4	PSBTTP203	2
4.	Advanced Analytical Techniques	PSBT204	4	PSBTTP204	2

Semester - III

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	PTC & ATC	PSBT301	4	PSBTP301	2
2.	Medical Microbiology	PSBT302	4	PSBTP302	2
3.	Bioprocess & Applied Biotechnology	PSBT303	4	PSBTP303	2
4.	Developmental Biology	PSBT304	4	PSBTP304	2

Semester - IV

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Nanotechnology	PSBT401	4	PSBTP401	2
2.	IPR & environment	PSBT402	4	PSBTP402	2
3.	Bioinformatics	PSBT403	4	PSBTP403	2
4.	Biostatistics	PSBT404	4	PSBTP404	2

M.Sc. Chemistry (Organic and Analytical)

- Intake capacity** –
- 1) Organic Chemistry – 20 seats
 - 2) Analytical Chemistry – 20 seats

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	PSCH201	4	PSCHP201	2
2.	Inorganic Chemistry	PSCH202	4	PSCHP202	2
3.	Organic Chemistry	PSCH203	4	PSCHP203	2
4.	Analytical Chemistry	PSCH204	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 & Bioorganic 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 & Bioorganic & 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

Semester - IV

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

M.Sc. Herbal Science

Intake capacity : 20 Seats

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 Authentication 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	PSHS201	4	PSHSP201	2
2.	Genomics, Proteomics, Bioinformatics and Biostatistics	PSHS202	4	PSHSP202	2
3.	Cultivation Practices - II	PSHS203	4	PSHSP203	2
4.	Phytoconstituents - II	PSHS204	4	PSHSP2 04	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	PSHSP303	2

Semester - IV

Sr. No.	Paper Title	Course Code (Theory)	Credit	Course code (Practical)	Credit
1.	Immunology, Disorders & Diseases & Molecular Biology	PSHS401	4	PSHSP401 (Project Work)	2
2.	Commercial Aspects	PSHS402	4	PSHSP402	2
3.	Medicinal Plants, Herbal Tinctures & Formulation & Modern System of Medicine	PSHS403	4	PSHSP403	2
4.	Environmental Science	PSHS404	4	PSHSP404	2

Bachelor of Hospitality Studies

Eligibility: Minimum 45% for GENERAL Category & Minimum 40% for RESERVED Category in H.S.C. (Arts / Commerce / Science) or its equivalent in aggregate. B.Sc.(H.S) is a three year full time Degree Affiliated to University of Mumbai. The subjects covered are as given below:

F.Y.B.Sc. (H.S.)

Semester I - B.Sc. (Hospitality Studies)

Course Code	Subject
USHO101	Food Production & Patisserie I
USHO102	Food & Beverage Service I
USHO103	Front Office I
USHO104	Housekeeping I
USHO105	Rooms Division Management (Practical) - I
USHO106	Communication Skills I (English & French)
USHO107	Information Technology
USHO108	Food Safety & Nutrition

Semester II - B.Sc. (Hospitality Studies)

Course Code	Subject
USHO201	Food Production & Patisserie II
USHO202	Food & Beverage Service II
USHO203	Front Office II
USHO204	Housekeeping II
USHO205	Rooms Division Management (Practical) - II
USHO206	Communication Skills II (English & French)
USHO207	Principles of Hotel Accountancy
USHO208	Principles of Management

S.Y.B.Sc. (H.S.)

Semester III & Semester IV - B.Sc. Hospitality Studies

(Students will be sent for Industrial Training either during the IIIrd or IVth semester as per the convenience of Industry/Institute. Classes will be conducted for the batch of students not undergoing Industrial Training.)

Course Code	Subject
USHO301	Food Production & Patisserie III
USHO302	Food & Beverage Service III
USHO303	Front Office III
USHO304	Housekeeping III
USHO305	Rooms Division Management (Practical) - III
USHO306	Hotel Accountancy & Cost Control
USHO307	Hospitality Law & Human Resource Management
USHO308	Management Information System in Hospitality Industry

T.Y.B.Sc. (H.S.)

Semester V - B.Sc. (Hospitality Studies)

Course Code	Subject
USHO501	Food Production & Patisserie
USHO502	Food & Beverage Operations Management
USHO503	Front Office
USHO504	Housekeeping
USHO505	Rooms Division Management (Practical)
USHO506	Corporate English
USHO507	Environmental & Sustainable Tourism

T.Y.B.Sc. (H.S.)

Semester VI - B.Sc. (Hospitality Studies)	
Course Code	Subject
USHO601	Organizational Behavior
USHO602	Strategic Management
USHO603	Event Planning, Marketing & Management
USHO604 Core Elective (Any Two)	
USHO614	Advanced Food Production
USHO624	Advanced Food & Beverage Operations Management
USHO634	Advanced Housekeeping
USHO644	Advanced Front Office Confectionery
USHO605 Allied Elective (Any One)	
USHO615	Revenue Management
USHO625	Foreign Language (French)
USHO635	Services Marketing
USHO645	Financial Management
USHO655	Strategic Human Resource Management

Hotel and Tourism Industries are growing at a rapid pace not only in India, but all over the World. B.Sc.(HS) 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 B.Sc.(HS) candidate has wide career opportunities in following areas -

1. Hotels & Resorts
2. Industrial, Institutional & Outdoor Catering
3. Airlines & Cruise Ships
4. Health Care Centers & Clubs etc.
5. Retail

Industrial Training: S.Y.B.Sc. (HS) students have been placed at JKI Marriott, I.T.C Maratha, Sofitel, Klestin - Obeori, Taj Lands end, Hilton, Dakwood, Lalit, Sun-n-Sand, Hometel, Sarovar, Sea Princess, Golden Tulip, Courtyard, Hyatt, Holiday Inn, Nestle, Novotal Ibis and many more, Royal Caribbean Crystal, P&O, Dominoss, Mocchas, Chokola, M.U, Rugby Hotels etc. for Summer Training / Placement.

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 English, Marathi & 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 staff, is always attentive to the needs of students and teachers & is very cooperative.

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 rifle shooting, rappelling, wall, climbing etc.

STUDENTS' 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. co-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.

VIVA College Cultural Dept.:-

The college participates in Mumbai University's "Youth Festival" in following events:-

- 1) One Act Play (Marathi & Hindi)
- 2) Skit (Marathi & Hindi)
- 3) Mono Acting (Marathi & Hindi)
- 4) Mime
- 5) Mimicry

These competitions are done at Zonal & National Level. Students can also take part in that ...

We also participate in Intercollegiate one act play competition called "I.N.T. (Indian National Theatre) This is one of the biggest competitions at intercollegiate level.

**VIVA CENTRE FOR ADVANCED RESEARCH & DEVELOPMENT
(V CARD)**



**HIGH PERFORMANCE THIN
LAYER CHROMATOGRAPH
(HPTLC)**



**HIGH PRESSURE LIQUID
CHROMATOGRAPH (HPLC)**



**ATOMIC ABSORPTION
SPECTROMETER (AAS)**



GAS CHROMATOGRAPH- MASS SPECTROMETER (GC-MS)

... and many other sophisticated instruments.

*** Soil and Water testing laboratory is registered
with Department of Agriculture, Government of Maharashtra.
(Facilities of this laboratory are available to M.Sc and
Ph.D student and Research Scholars).**

VIVA COLLEGE, VIRAR (W)

Shri Vishnu Waman Thakur Charitable Trust's

VIVA TECHNICAL CAMPUS, Virar (E)

**VIVA INSTITUTE OF TECHNOLOGY
VIVA SCHOOL OF ARCHITECTURE
VIVA INSTITUTE OF APPLIED ART**

**B.E.
B.Arch.
B.F.A.**

VIVA INSTITUTE OF PHARMACY (B.Pharm.)

VIVA INSTITUTE OF MANAGEMENT & RESEARCH

M.M.S. (M.B.A.)

VIVA SCHOOL OF M.C.A.

VIVA COLLEGE OF DIPLOMA ENGINEERING & TECHNOLOGY, Virar (W)

VIVA COLLEGE OF HOTEL & TOURISM MANAGEMENT STUDIES

B.Sc.H.S. (Hospitality Studies)

M.B.A. Hotel Management & Tourism

B.Sc. Hotel Management & Tourism

Diploma in Hotel Management & Catering Technology

VIVA INSTITUTE OF VISUAL ART

Animation

Photography

Computer Graphics

VIVA COLLEGE, VIRAR (W)

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