



## विद्यावर्धिनीचे

अण्णासाहेब वर्तक मानव्य महाविद्यालय,  
केदारनाथ मल्होत्रा वाणिज्य महाविद्यालय  
आणि ई. एस. अंड्राडिस विज्ञान महाविद्यालय

## Vidyavardhini's

Annasaheb Vartak College of Arts,  
Kedarnath Malhotra College Of Commerce  
And E. S. Andrades College of Science

VASAI ROAD (W), DIST. PALGHAR, MAHARASHTRA - 401 202

ACCREDITED BY NAAC WITH B++ GRADE

DEGREE COLLEGE UN-AIDED COURSES

(U.G. & P.G.)

AFFILIATED TO THE UNIVERSITY OF MUMBAI

माहिती पत्रक  
**PROSPECTUS**  
**2020-2021**



## विद्यावर्धिनीची प्रेरणा स्थाने



अण्णासाहेब वर्तक



भाऊसाहेब वर्तक



तारामाई वर्तक



केदारनाथ मल्होत्रा



इ. एस. अंड्राडिस

## विद्यावर्धिनीचे कार्यकारी मंडळ

### अध्यक्ष

श्री. विकास नरसिंह वर्तक

### उपाध्यक्ष

श्री. शांताराम बापूजी जाधव  
श्री. पांडुरंग गजानन नाईक  
प्रा. पु. द. कोडोलीकर

### कार्याध्यक्ष

श्री. अरुण गणेश वर्तक

### कार्यवाह

श्री. उध्दव ज. घरत  
श्री. मधुकर नामदेवराव मोहोळ

### खजिनदार

श्री. हसमुखभाई म. शाह

### कार्यवाह (पदसिध्द) कॉलेज कमिटी

: डॉ. के. एन. घोरुडे

प्राचार्य, कला, वाणिज्य, विज्ञान महाविद्यालय

प्रा. पी. एम्. पाटीदार

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प्राचार्य, अभियांत्रिकी महाविद्यालय

### सभासद

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श्री. वॉल्टर अंड्राडिस

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श्री. आशय हरेश्वर राऊत, प्रतिनिधी, वसई शेतकरी वि. का. स. सो. लि., देवतळे.

अध्यक्ष, जिल्हा परिषद, पालघर

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## VIDYAVARDHINI'S COLLEGES : AN OVERVIEW

The late **Padmashri Bhausaheb Vartak** was a visionary par excellence and a devoted social worker. He founded the Vidyavardhini in 1970 an institution to provide an opportunity to all students in the vicinity of Vasai with affordable, quality college education which was the need of the hour. Today **Vidyavardhini** has grown as an institute of repute with three degree colleges, Arts, Commerce & Science College, Engineering Degree College and Bhausaheb Vartak Polytechnic offering Diplomas in various branches of Engineering.

Under the able guidance of the Ex- President of Vidyavardhini, **Late Smt. Tarabai N. Vartak**, Ex-President of Vidyavardhini **Late Shri Pratapbhai Khokhani**, President **Shri Vikas N. Vartak**, Vice Presidents **Shri Shantaram B. Jadhav**, **Shri P. G. Naik**, **Principal P. D. Kodolikor**, Chairman **Shri Arun Sheth Vartak**, Secretaries **Shri Uddhav J. Gharat** and **Shri. Madhukar N. Mohol**, Treasurer **Shri Hasmukhbhai M. Shah** Vidyavardhini has taken big strides and carved for itself a niche in Maharashtra as one of the best educational institutions. The aim of the institution is to provide not only quality education, but also a holistic development of personality and make student a man of culture. It encourages students to excel not only in academics but also in co-curricular activities, thus making them fully rounded personalities able to face the challenges of the world.

Located just a short distance away from Vasai Road Station, Vidyavardhini's colleges are nestled in the midst of a sprawling campus.

College is affiliated to the **University of Mumbai**. There are more than 7000 students taking education in this institution. The College has well qualified experienced teachers. There are well-equipped laboratories for all Science subjects including Computer Science, Information Technology and Biotechnology. Five storied separate building for Library, Gymkhana, professional courses having other facilities as well, has been newly constructed as per the norms laid down by the NAAC.

## AIMS & OBJECTIVES OF VIDYAVARDHINI

- To provide affordable quality college education to all students of Vasai and adjoining areas, right here in Vasai.
- To actively promote the noble cause of higher education for girls.
- To ensure that not a single deserving student of this region is deprived of college education merely because of adverse social and economical factors.
- To instill in our students a strong feeling of self-confidence so that they become adequately equipped to compete favorably with students from metro cities in India and abroad in all spheres, be it job opportunities or further education or whatsoever.
- To create amongst students, social awareness regarding various forms of inequalities arising from social and economic factors and to imbibe in them a spirit to fight injustice at all levels.



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## VIDYAVARDHINI'S

### ANNASAHEB VARTAK COLLEGE OF ARTS, KEDARNATH MALHOTRA COLLEGE OF COMMERCE & E. S. ANDRADES COLLEGE OF SCIENCE

Vasai Road - 401 202, Dist. Palghar

## PROSPECTUS 2020-2021

### COURSES OFFERED

Presently College is offering five Unaided Courses at Under Graduate Level and Five Courses at Post Graduate Level other than regular B.A., B.Com. and B.Sc. courses.

Under Graduate Level Courses are B.Sc. (Computer Science), B.Sc. (Information Technology), and B.Sc. (Biotechnology) in the science stream; B.Com. (Banking & Insurance) in the Commerce Stream and Bachelor of Management Studies (B.M.S.) in Management stream.

Post Graduate Level Courses are M.Sc. (Computer Science) and M.Sc. (Information Technology) in the stream of Science and M.A. (History), M.A. (Marathi) and M.A. (Economics) in the stream of Arts and M.Com. (Advanced Accounting) in the stream of Commerce.

### BACHELOR OF SCIENCE IN COMPUTER SCIENCE

#### INTRODUCTION

Information and Communication Technology (ICT) has today become integral part of all industry domains as well as fields of academics and research. The industry requirements and technologies have been steadily and rapidly advancing. Organizations are increasingly opting for open source systems. The students too these days are thinking beyond career in the industry and aiming for research opportunities.

The B.Sc. Computer Science Course structure therefore needed a fresh outlook and complete overhaul. A real genuine attempt has been made by the University of Mumbai while designing the new syllabus for this 3 year graduate course. Note only does it prepares the students for a career in software industry, it also motivates them towards further studies and research opportunities. The core philosophy of overall syllabus is to :

- Form strong foundation in Computer Science.
- Introduce emerging trends to the students in gradual way.
- Groom the students for the challenges of ICT industry.

In the first year i.e. for semester I & II basic foundation of important skills required for software development is laid. The syllabus proposes to have four core subject of Computer science and two core courses of Mathematics-Statistics. All core subjects are proposed to have theory as well as practical tracks. While the Computer Science courses will form fundamental skills for solving computational problems, the Mathematics & Statistics course will inculcate research-oriented acumen.



The syllabus design for further semesters encompasses more advanced and specialized courses of Computer Science.

The course is so developed and presented that any student taking this course will get very strong foundation and exposure to basics, advanced and emerging trends of the subject. The students community and teachers fraternity will appreciate the treatment given to the courses by the University in the syllabus.

The College is thankful to the University of Mumbai for re-structuring and improving this course from Academic year 2016-17.

## COURSES STRUCTURE

### F.Y.B.SC. Computer Science Syllabus (Choice Based Credit System) Academic Year 2019-2020 ONWARDS

Semester - I				
Course Code	Course Type	Course Title	Credits	Lectures / Week
USCS101	Core Subject	Computer Organization and Design	2	3
USCS102	Core Subject	Programming with Python - 1	2	3
USCS103	Core Subject	Free and Open Source Software	2	3
USCS104	Core Subject	Database Systems	2	3
USCS105	Core Subject	Discrete Mathematics	2	3
USCS106	Core Subject	Descriptive Statistics and Introduction to Probability	2	3
USCS107	Ability Enhancement Course 1	Soft Skills Development	2	3
USCSP101	Core Subject Practical	Practical of USCS101 + USCS102	2	3
USCSP102	Core Subject Practical	Practical of USCS103 + USCS104	2	3
USCSP103	Core Subject Practical	Practical of USCS105 + USCS106	2	3
Semester - II				
Course Code	Course Type	Course Title	Credits	Lectures / Week
USCS201	Core Subject	Programming with C	2	3
USCS202	Core Subject	Programming with Python - II	2	3
USCS203	Core Subject	Linux	2	3
USCS204	Core Subject	Data Structures	2	3
USCS205	Core Subject	Calculus	2	3
USCS206	Core Subject	Statistical Methods and Testing of Hypothesis	2	3
USCS207	Ability Enhancement Course 2	Green Technologies	2	3
USCSP201	Core Subject Practical	Practical of USCS201 + USCS202	2	3
USCSP202	Core Subject Practical	Practical of USCS203 + USCS204	2	3
USCSP203	Core Subject Practical	Practical of USCS205 + USCS206	2	3

[UG/18 OF 2016-17 DATED 17TH JUNE 2016]



## S.Y.B.SC. Computer Science Syllabus (Credit Based Semester and Grading System) Academic Year 2019-2020 **ONWARDS**

Semester - III			
Course Code	Course Title	Credits	Lectures / Week
USCS301	Theory of Computation	2	3
USCS302	Core JAVA	2	3
USCS303	Operating System	2	3
USCS304	Database Management Systems	2	3
USCS305	Combinatorics and Graph Theory	2	3
USCS306	Physical Computing and IoT Programming	2	3
USCS307	Skill Enhancement : Web Programming	2	3
USCSP301	USCS302 + USCS303 + USCS304	3	9
USCSP302	USCS305 + USCS306 + USCS307	3	9

Semester - IV			
Course Code	Course Title	Credits	Lectures / Week
USCS401	Fundamentals of Algorithms	2	3
USCS402	Advanced JAVA	2	3
USCS403	Computer Networks	2	3
USCS404	Software Engineering	2	3
USCS405	Linear Algebra using Python	2	3
USCS406	.NET Technologies	2	3
USCS407	Skill Enhancement : Android Developer Fundamentals	2	3
USCSP401	USCS401 + USCS402 + USCS403	3	9
USCSP402	USCS405 + USCS406 + USCS407	3	9

T.Y.B.Sc. (Computer Science) Semester - V				T.Y.B.Sc. (Computer Science) Semester - VI			
Course Code	Course Title	Credits	Lectures / Week	Course Code	Course Title	Credits	Lectures / Week
USCS501	Artificial Intelligence	3	3	USCS601	Wireless Sensor Networks and Mobile Communication	3	3
USCS502	Linux Server Administration	3	3	USCS602	Cloud Computing	3	3
USCS503	Software Testing and Quality Assurance	3	3	USCS603	Cyber Forensics	3	3
	<b>Elective-II (Select Any Two)</b>				<b>Elective-II (Select Any Two)</b>		
USCS504	Information and Network Security	3	3	USCS604	Information Retrieval	3	3
USCS505	Architecting of IoT	3	3	USCS605	Digital Image Processing	3	3
USCS506	Web Services	3	3	USCS606	Data Science	3	3
	<b>Skill Enhancement</b>				<b>Skill Enhancement</b>		
USCS507	Game Programming	2	3	USCS607	Ethical Hacking	2	3
	<b>Practical</b>				<b>Practical</b>		
USCSP501	Practical of Elective - I	2	6	USCSP601	Practical of Elective - I	2	6
USCSP502	Practical of Elective - II	2	6	USCSP602	Practical of Elective - II	2	6
USCSP503	Project Implementation	1	3	USCSP603	Project Implementation	1	3
USCSP504	Practical of Skill Enhancement : USCS507	1	3	USCSP604	Practical of Skill Enhancement : USCS607	1	3

**NOTE :**

Passing standards, Repeat Exam Rules and A.T.K.T. Rules are given in page Nos. 41 to 44



## Intake Capacity

The intake capacity at the F.Y.B.Sc. level is 60 students and the batch size for practical is as per the norms laid down by University of Mumbai.

## ELIGIBILITY FOR ADMISSION

A candidate for being eligible for admission to the Degree program B.Sc. in Computer Science course shall have passed XIIth std. Examination of the Maharashtra State Board of Secondary & Higher Secondary Education or its equivalent with MATHEMATICS as one of the subjects. The admission is through merit, based on marks secured at HSC or equivalent examination.

## FEE STRUCTURE FOR B.Sc. COMPUTER SCIENCE COURSE

Fee Head	F.Y.B.Sc. (CS) (Rs.)	S.Y.B.Sc. (CS) (Rs.)	T.Y.B.Sc. (CS) (Rs.)
Tuition Fee	16000	18000	20000
Gymkhana Fee	400	400	400
Library Fee	600	600	600
Other Fee	280	300	250
Laboratory Fee	5000	5000	5000
Examination Fee	1990	1990	2240
University Enrolment Fee	220	-	-
Admission Processing Fee	200	200	200
Students Aid Fund	50	50	50
I Card & Library Card Fee	50	50	50
Sports & Cultural Activities Fee	30	30	30
Vice-Chancellor's Fund	20	20	20
E-Charges	20	20	20
E-Suvidha	50	50	50
Group Insurance	40	40	40
Utility Fee	250	250	250
Development Fund	500	500	500
<b>Total Annual Fee</b>	<b>25700</b>	<b>27500</b>	<b>29700</b>

\* Fees are subject to modification as per University Rules.

\* Fee Applicable to Reserved Category students is as per Government rules. Fee concession to Reserved Category Students is subject to fulfillment of conditions and criteria laid down by the Government Departments from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPAL A. V. COLLEGE", payable at Mumbai / Vasai Road.



## PROGRAM : B.Sc. INFORMATION TECHNOLOGY

[UG/176 OF 2016-17 Dated 22nd November 2016]

### INTRODUCTION:

The B.Sc. Information Technology programme was started in 2001 with an aim to make the students employable and impart industry oriented training. The main objectives of the course are:

- To think analytically, creatively and critically in developing robust, extensible and highly maintainable technological solutions to simple and complex problems.
- To apply their knowledge and skills to be employed and excel in IT professional careers and / or to continue their education in IT and / or related post graduate programmes.
- To be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
- To work effectively as a part of a team to achieve a common stated goal.
- To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
- To communicate effectively with a range of audiences both technical and non-technical.
- To develop an aptitude to engage in continuing professional development. The new syllabus is aimed to achieve the objectives.

The syllabus spanning three years covers the industry relevant courses. The students will be ready for the jobs available in different fields like:

- Software Development (Programming)
- Website Development
- Mobile app development
- Embedded Systems Programming
- Embedded Systems Development
- Software Testing
- Networking
- Database Administration
- System Administration
- Cyber Law Consultant
- GIS (Geographic Information Systems)
- IT Service Desk
- Security

And many others.

The students will also be trained in communication skills and green computing.

## COURSE STRUCTURE

### First Year B.Sc. (Information Technology) Semester - I

Course Code	Course Type	Course Title	Credits
USIT101	Core Subject	Imperative Programming	2
USIT102	Core Subject	Digital Electronics	2
USIT103	Core Subject	Operating System	2
USIT104	Core Subject	Discrete Mathematics	2
USIT105	Ability Enhancement Skill Course	Communication Skills	2
USIT1P1	Core Subject Practical	Imperative Programming Practical	2
USIT1P2	Core Subject Practical	Digital Electronics Practical	2
USIT1P3	Core Subject Practical	Operating Systems Practical	2
USIT1P4	Core Subject Practical	Discrete Mathematics Practical	2
USIT1P5	Ability Enhancement Skill Course Practical	Communication Skills Practical	2
<b>Total Credits</b>			<b>20</b>



## First Year B.Sc. (Information Technology) Semester - II

Course Code	Course Type	Course Title	Credits
USIT201	Core Subject	Object oriented Programming	2
USIT202	Core Subject	Microprocessor Architecture	2
USIT203	Core Subject	Web Programming	2
USIT204	Core Subject	Numerical and Statistical Methods	2
USIT205	Ability Enhancement Skill Course	Green Computing	2
USIT2P1	Core Subject Practical	Object Oriented Programming Practical	2
USIT2P2	Core Subject Practical	Microprocessor Architecture Practical	2
USIT2P3	Core Subject Practical	Web Programming Practical	2
USIT2P4	Core Subject Practical	Numerical & Statistical Methods Practical	2
USIT2P5	Ability Enhancement Skill Course Practical	Green Computing Practical	2
		<b>Total Credits</b>	<b>20</b>

## Second Year B.Sc. (Information Technology) Semester - III

Course Code	Course Type	Course Title	Credits
USIT301	Skill Enhancement Course	Python Programming	2
USIT302	Core Subject	Data Structures	2
USIT303	Core Subject	Computer Networks	2
USIT304	Core Subject	Database Management Systems	2
USIT305	Core Subject	Applied Mathematics	2
USIT3P1	Skill Enhancement Course Practical	Python Programming Practical	2
USIT3P2	Core Subject Practical	Data Structures Practical	2
USIT3P3	Core Subject Practical	Computer Networks Practical	2
USIT3P4	Core Subject Practical	Database Management Systems Practical	2
USIT3P5	Core Subject Practical	Mobile Programming Practical	2
		<b>Total Credits</b>	<b>20</b>

## Second Year B.Sc. (Information Technology) Semester - IV

Course Code	Course Type	Course Title	Credits
USIT401	Skill Enhancement Course	Core Java	2
USIT402	Core Subject	Introduction to Embedded Systems	2
USIT403	Core Subject	Computer Oriented Statistical Techniques	2
USIT404	Core Subject	Software Engineering	2
USIT405	Core Subject	Computer Graphics and Animation	2
USIT4P1	Skill Enhancement Course Practical	Core Java Practical	2
USIT4P2	Core Subject Practical	Introduction to Embedded Systems Practical	2
USIT4P3	Core Subject Practical	Computer Oriented Statistical Techniques Practical	2
USIT4P4	Core Subject Practical	Software Engineering Practical	2
USIT4P5	Core Subject Practical	Computer Graphics and Animation Practical	2
		<b>Total Credits</b>	<b>20</b>



### Third Year B.Sc. (Information Technology) Semester – V

Course Code	Course Type	Course Title	Credits
USIT501	Skill Enhancement Course	Software Project Management	2
USIT502	Skill Enhancement Course	Internet of Things	2
USIT503	Skill Enhancement Course	Advanced Web Programming	2
USIT504	Discipline Specific Elective	Artificial Intelligence	2
USIT505	(Any One)	Linux System Administration	
USIT506	Discipline Specific Elective	Enterprise Java	2
USIT507	(Any One)	Next Generation Technologies	
USIT5P1	Skill Enhancement Course Practical	Project Dissertation	2
USIT5P2	Skill Enhancement Course Practical	Internet of Things Practical	2
USIT5P3	Skill Enhancement Course Practical	Advanced Web Programming Practical	2
USIT5P4	Discipline Specific Elective	Artificial Intelligence Practical	2
USIT5P5	Practical (Any One)*	Linux Administration Practical	
USIT5P6	Discipline Specific Elective	Enterprise Java Practical	2
USIT5P7	Practical (Any One)*	Next Generation Technologies Practical	
<b>Total Credits</b>			<b>20</b>

*(All the practical mentioned in the syllabi are compulsory as per the courses chosen)*

### Third Year B.Sc. (Information Technology) Semester – VI

Course Code	Course Type	Course Title	Credits
USIT601	Skill Enhancement Course	Software Quality Assurance	2
USIT602	Skill Enhancement Course	Security in Computing	2
USIT603	Skill Enhancement Course	Business Intelligence	2
USIT604	Discipline Specific Elective	Principles of Geographic Information Systemes	2
USIT505	(Any One)	Enterprise Networking	
USIT606	Discipline Specific Elective	IT Service Management	2
USIT607	(Any One)	Cyber Laws	
USIT6P1	Skill Enhancement Course Practical	Project Implementation	2
USIT6P2	Skill Enhancement Course Practical	Security in Computing Practical	2
USIT6P3	Skill Enhancement Course Practical	Business Intelligence Practical	2
USIT6P4	Discipline Specific Elective	Principles of Geographic Information Systems Practical	2
USIT6P5	Practical (Any One)*	Enterprise Networking Practical	
USIT6P6	Skill Enhancement Course Practical	Advanced Mobile Programming	2
<b>Total Credits</b>			<b>20</b>

\*The choice of Practical course is based on the theory Course. For Semester V, USIT504, USIT505, USIT506 and USIT507, the practical courses are USIT5P4, USIT5P5, USIT5P6, USIT5P7. For Semester VI, USIT604, USIT605 the practical course are USIT6P4, USIT6P5 respectively. Practical Course USIT6P6 is compulsory.



## Intake Capacity :

The intake capacity at each year is **120** students and the batch size for practical is as per the norms laid down by University of Mumbai.

## Eligibility for Admission:

A candidate for being eligible for admission to the Degree Course in Bachelor of Science (Information Technology) shall have passed XIIth std. Examination of the Maharashtra State Board of Secondary & Higher Secondary Education or its equivalent with **MATHEMATICS** as compulsory subject and should have secured not less than 45% marks in aggregate for open category and 40% marks in aggregate in case of reserved category candidates in **ONE SITTING**.

## AND

Candidate who have passed Diploma in Computer Engineering / Computer Science / Computer Technology / Information Technology / Electrical, Electronics & Video Engineering and Allied branches / Mechanical and Allied branches, Civil and Allied branches of Engineering after S.S.C. (Xth Standard) are eligible for direct admission to the Second Year of the B.Sc. (I. T.) degree course.

However, the Diploma should be recognized by the Maharashtra State Board of Technical Education of any other recognized Government Body. Minimum marks required are 45% aggregate for open category candidates and 40% aggregate for Reserved category candidates.

Candidates with post HSC - Diploma in Computer Engineering / Computer Science / Computer Technology / Information Technology and allied branches will be eligible for direct admission to the Second Year of B.Sc. (IT). However, the Diploma should be recognized by the Maharashtra State Board of Technical Education or any other recognized Government Body. Minimum marks required are 45% aggregate for open category candidates and 40% aggregate for Reserved category candidates.

Admission to direct Second Year B.Sc. (I.T.) for diploma pass students is subject to Eligibility from University of Mumbai.

## SCHEME OF EXAMINATION

1. Each course / subject comprise of 100 marks Theory and 50 marks Term Work / Practical / Tutorial. The 100 marks theory is divided into Semester End Exam. of 75 Marks and Class Test of 25 Marks. Semester End Practical Exam carries 50 marks.
2. Semester End Theory examinations will be held at the end of every semester which will be of 2.5 hrs. duration.
3. Tutorials are theory / problems to be solved by the students in the class room at the end of practical/theory session.
4. Assignment are theory / Problems to be solved by the students at home.
5. Class Tests will be conducted in the class room with due notice.
6. Semester I, II, III & IV are conducted by College on behalf of University whereas examinations of Semester V & semester VI are conducted by the University.



## FEE STRUCTURE FOR B.Sc. INFORMATION TECHNOLOGY

Fee Head	F.Y.B.Sc. (I.T.) (Rs.)	S.Y.B.Bs. (I.T.) (Rs.)	T.Y.B.Sc. (I.T.) (Rs.)
Tuition Fee	10000	10000	10000
Gymkhana Fee	400	400	400
Library Fee	1200	1200	1200
Other Fee	260	280	250
Laboratory Fee	7000	7500	8500
Examination Fee	1990	1990	2240
University Enrolment Fee	220	--	--
Admission Processing Fee	200	200	200
Students Aid Fund	50	50	50
I Card & Library Card Fee	50	50	50
Sports & Cultural Activities Fee	40	40	40
Vice-Chancellor's Fund	20	20	20
E-Charges & E-Suvidha	70	70	50
Disaster Relief Fund	10	10	10
Group Insurance	40	40	40
Utility Fee	250	250	250
Development Fund	500	500	500
Project Fee	--	--	1000
<b>Total Annual Fee</b>	<b>22300</b>	<b>22600</b>	<b>23800</b>

\* Fees are subject to modification as per University Rules.

\* Fee Applicable to Reserve Category students is as per Government rules. Fee concession to Reserve Category Students is subject to fulfillment of conditions and criteria laid down by the Government Department from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPAL A. V. COLLEGE", payable at Mumbai / Vasai Road.

## BACHELOR OF SCIENCE IN BIOTECHNOLOGY

### INTRODUCTION :

The origin of Biotechnology can be traced back to prehistoric times, when microorganisms were already used for processes like fermentation. Biotechnology is a science of integration between Biology and Technology. It is believed that Biotechnology may become a major force for human existence in the future and this field will provide a basic support to the development of industries, diagnosis, prevention and control of various diseases. This field will provide answers to the problems related to environmental degradation and its control. Biofuels. Agrobiotechnologies are developing branches of Biotechnology which will play a very important role in human life and conservation of resources.

The Bachelor of Science B.Sc. with Biotechnology course has the status as one of the subjects at the B.Sc. Course.



## PROGRAM : B. Sc. BIOTECHNOLOGY

[UG/126 of 2016-17 Dated 25th October 2016]

### COURSE STRUCTURE

Students will have to study following papers in B.Sc. (Biotechnology)

#### (I) First Year B.Sc. (Biotechnology) Semester - I

Course Code	Course	Title Credits
USBT101	Basic Chemistry - I	2 Credits (45 Lectures)
USBT102	Basic Chemistry - II	2 Credits (45 Lectures)
USBT103	Basic Life Sciences - I Biodiversity and Cell Biology	2 Credits (45 Lectures)
USBT104	Basic Life Sciences - II Microbial Techniques	2 Credits (45 Lectures)
USBT105	Basic Biotechnology - I Introduction to Biotechnology	2 Credits (45 Lectures)
USBT106	Basic Biotechnology - II Molecular biology	2 Credits (45 Lectures)
USBT107	Societal Awareness	2 Credits (45 Lectures)
USBT101	Practical of USBT101 and USBT102	2 Credits
USBT102	Practical of USBT103 and USBT104	2 Credits
USBT103	Practical of USBT105 and USBT106	2 Credits

#### (I) First Year B.Sc. (Biotechnology) Semester - II

Course Code	Course	Title Credits
USBT201	Chemistry - I Bioorganic Chemistry	2 Credits (45 Lectures)
USBT202	Chemistry - II Physical Chemistry	2 Credits (45 Lectures)
USBT203	Life Sciences - I Physiology and Ecology	2 Credits (45 Lectures)
USBT204	Life Sciences - II Genetics	2 Credits (45 Lectures)
USBT205	Biotechnology - I Tissue Culture & Scientific Writing and Communication Skills	2 Credits (45 Lectures)
USBT206	Biotechnology - II Enzymology, Immunology & Biostatistics	2 Credits (45 Lectures)
USBT207	Globalization, Ecology and Sustainable Development	2 Credits (45 Lectures)
USBT201	Practical of USBT201 and USBT202	2 Credits
USBT202	Practical of USBT203 and USBT204	2 Credits
USBT203	Practical of USBT205 and USBT206	2 Credits



### (III) Second Year B.Sc. (Biotechnology) Semester - III

Course Code	Course Type	Course Title	Credits	Lectures / Week
USBT301	Core Subject	Biophysics	2	3
USBT302	Core Subject	Applied Chemistry - I	2	3
USBT303	Core Subject	Immunology	2	3
USBT304	Core Subject	Cell Biology and Cytogenetics	2	3
USBT305	Core Subject	Molecular Biology	2	3
USBT306	Skill Enhancement Elective	Bioprocess Technology	2	3
USBT307	General Elective	Research Methodology	2	3
USBTP301	Core Subject Practical	Practical of USBT_301 + USBT_302	2	6
USBTP302	Core Subject Practical	Practical of USBT_303 + USBT_304	2	6
USBTP303	Core Subject and Skill Enhancement Elective Practicals	Practical of USBT_305 + USBT_306	2	6

### (IV) Second Year B.Sc. (Biotechnology) Semester - IV

Course Code	Course Type	Course Title	Credits	Lectures / Week
USBT401	Core Subject	Biophysics	2	3
USBT402	Core Subject	Applied Chemistry - II	2	3
USBT403	Core Subject	Medical Microbiology	2	3
USBT404	Core Subject	Environmental Biotechnology	2	3
USBT405	Core Subject	Biostatistics and Bioinformatics	2	3
USBT406	Skill Enhancement Elective	Molecular Diagnostics	2	3
USBT407	General Elective	Entrepreneurship Development	2	3
USBTP401	Core Subject Practical	Practical of USBT_401 + USBT_402	2	6
USBTP402	Core Subject Practical	Practical of USBT_403 + USBT_404	2	6
USBTP403	Core Subject and Skill Enhancement Elective Practicals	Practical of USBT_405 + USBT_406	2	6



## (V) Third Year B.Sc. (Biotechnology) Semester - V

Course Code USBT	Title	Theory / Practical	Marks	Credits	Nos of Lectures & Practical
501	Cell biology	Theory	100	2.5	60
502	Medical Microbiology & Instrumentation	Theory	100	2.5	60
503	Genomes and Molecular Biology	Theory	100	2.5	60
504	Marine Biotechnology	Theory	100	2.5	60
P501+502	Cell biology + Medical Microbiology & Instrumentation	Practical	100	3.0	72
P503+504	Genomes and Molecular Biology + Marine Biotechnology	Practical	100	3.0	72
Applied Component	Biosafety	Theory	100	2.0	48
	Biosafety	Practical	100	2.0	48
<b>TOTAL</b>			<b>800</b>	<b>20</b>	<b>480</b>

## (V) Third Year B.Sc. (Biotechnology) Semester - VI

Course Code USBT	Title	Theory / Practical	Marks	Credits	Nos of Lectures & Practical
601	Biochemistry	Theory	100	2.5	60
602	Industrial Microbiology	Theory	100	2.5	60
603	Pharmacology and Neurochemistry	Theory	100	2.5	60
604	Environmental Biotechnology	Theory	100	2.5	60
P601+P602	Biochemistry & Industrial Microbiology	Practical	100	3.0	72
P603+P604	Pharmacology - Neurochemistry and Environmental Biotechnology (50m) + Project work (50m)	Practical	100	3.0	72
Applied Component	Agribiotechnology	Theory	100	2.0	48
Applied	Agribiotechnology	Practical	100	2.0	48
<b>TOTAL</b>			<b>800</b>	<b>20</b>	<b>480</b>

**Teaching Pattern :** One (01) Credit would be of thirty - forty (30-40) learning hours; of this more than fifty percent of the time will be spent on class room instructions including practical as prescribed by the University. Rest of the time spent invested for assignments, projects, journal writing, case studies, library work, industrial visits, attending seminars / workshops, preparations for examinations etc. would be considered as notional hours. The present syllabus considers (60L as class room teaching and 15 lectures as Notional hours / paper). Each lecture duration would be for 48 min

The names of the reference books provided in the syllabus are for guidance purpose only. Students and faculty are encouraged to explore additional reference books, online lectures, videos, science journals for latest / additional information.

**NOTES :** Passing Standards, Repeat Exam Rules and A.T.K.T. Rules are as given on pages Nos. 41 to 44.

**Intake Capacity :** The intake capacity at the F.Y.B.Sc. level is 35 students and the batch size for practical is as per the norms laid down by University of Mumbai.

**Eligibility for Admission :** A candidate for being eligible for admission to the Degree Course in B.Sc. (Bio-Technology) shall have passed XIIth std. Examination of the Maharashtra State Board of Secondary & Higher Secondary Education or its equivalent with Mathematics as one of subjects. The admission is through merit based on marks secured at H.S.C.



## FEE STRUCTURE FOR B.Sc. BIOTECH COURSE

Fee Head	F.Y.B.Sc. (Rs.)	S.Y.B.Bs. (Rs.)	T.Y.B.Sc. (Rs.)
Tuition Fee	16000	18000	20000
Gymkhana Fee	400	400	400
Library Fee	600	600	600
Other Fee	280	300	250
Laboratory Fee	5000	5000	5000
Examination Fee	1990	1990	2240
University Enrolment Fee	220	-	-
Admission Processing Fee	200	200	200
Students Aid Fund	50	50	50
I Card & Library Card Fee	50	50	50
Sports & Cultural Activities Fee	30	30	30
Vice-Chancellor's Fund	20	20	20
E-Charges	20	20	20
E-Suvidha	50	50	50
Group Insurance	40	40	40
Utility Fee	250	250	250
Development Fund	500	500	500
Project Fee	-	-	1500
<b>Total Annual Fee</b>	<b>25700</b>	<b>27500</b>	<b>31200</b>

\* Fees are subject to modification as per University Rules.

\* Fee Applicable to Reserved Category students is as per Government rules. Fee concession to Reserved Category Students is subject to fulfillment of conditions and criteria laid down by the Government Department from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPAL A. V. COLLEGE", Payable at Mumbai / Vasai Road.



## BACHELOR OF MANAGEMENT STUDIES

### INTRODUCTION :

The Bachelor of Management Studies (B.M.S.) Course has been introduced by the University of Mumbai with the following objectives :

- To create for the students of University of Mumbai an additional avenue of self-employment and also to benefit industry by providing them with suitable trained persons.
- To prepare student to exploit opportunities being newly created in the Management Profession.
- To provide adequate basic understanding about Management Education among the students.
- To give an adequate exposure to operational environment in the field of Management.
- To inculcate training in the use of modern technology for the benefit of all parties concerned.

### Duration :

1. The course is a full time course with duration of Six Semesters spread over **Three years**.
2. The course consists of 39 subjects comprising of 38 theory papers and 1 project.
3. Total number of lectures per theory paper will be a minimum of 50 and a maximum of 55, each of 50 minutes duration.

## COURSE STRUCTURE

**Bachelor of Management Studies (BMS) Programme**  
**Under Choice Based Credit, Grading and Semester System**  
**[UG/109 of 2016-17 Dated 25th October 2016]**  
**(Implemented from Academic Year 2016 - 2017)**

### F.Y. BMS

No. of Courses	Semester - I	Credits	No. of Courses	Semester - II	Credits
<b>1</b>	<b>Elective Courses (EC)</b>		<b>1</b>	<b>Elective Course (EC)</b>	
1	Introduction to Financial Accounts	03	1	Principles of marketing	03
2	Business law	03	2	Industrial Law	03
3	Business Statistics	03	3	Business Mathematics	03
<b>2</b>	<b>Ability Enhancement Courses (AEC)</b>		<b>2</b>	<b>Ability Enhancement Courses (AEC)</b>	
<b>2A</b>	<b>Ability Enhancement Compulsory Courses (AECC)</b>		<b>2A</b>	<b>Ability Enhancement Compulsory Courses (AECC)</b>	
4	Business Communication - I	03	4	Business Communication - II	03
<b>2B</b>	<b>*Skill Enhancement Course (SEC)</b>		<b>2B</b>	<b>**Skill Enhancement Courses (SEC)</b>	
5	Any one course from the following list of courses	02	5	Anyone course from the following list of courses	02
<b>3</b>	<b>Core Courses (CC)</b>		<b>3</b>	<b>Core Courses (CC)</b>	
6	Foundation of Human Skills	03	6	Business Environment	03
7	Business Economics - I	03	7	Principles of Management	03
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>

#### \*List of Skill Enhancement Courses (SEC) for Semester I (Any One)

1	Foundation Course - I
2	Foundation Course in NSS - I
3	Foundation Course in NCC - I
4	Foundation Course in Physical Education - I

#### \*\*List of Skill Enhancement Courses (SEC) for Semester II (Any One)

1	Foundation Course - Value Education and Soft Skill - II
2	Foundation Course in NSS - II
3	Foundation Course in NCC - II
4	Foundation Course in Physical Education - II

Note : Course selected in Semester - I will continue in Semester - II



## S.Y. BMS

(Implemented from Academic Year 2017 - 2018)

No. of Courses	Semester - III	Credits	No. of Courses	Semester - IV	Credits
1	<b>Elective Courses (EC)</b>		1	<b>Elective Course (EC)</b>	
1 & 2	*Any one group of courses from the following list of the courses	06	1 & 2	**Any one group of courses from the following list of the courses	06
2	<b>Ability Enhancement Courses (AEC)</b>		2	<b>Ability Enhancement Courses (AEC)</b>	
2A	<b>Ability Enhancement Compulsory Courses (AECC)</b>		2A	<b>Ability Enhancement Compulsory Courses (AECC)</b>	
3	Information Technology in Business Management - I	03	3	Information Technology in Business Management - II	03
2B	<b>Skill Enhancement Courses (SEC)</b>		2B	<b>Skill Enhancement Courses (SEC)</b>	
4	Foundation Course - III	02	4	Foundation Course - IV	02
3	<b>Core Courses (CC)</b>		3	<b>Core Courses (CC)</b>	
5	Business Planning & Entrepreneurial Management	03	5	Business Economics - II	03
6	Accounting for Managerial Decisions	03	5	Business Research Method	03
7	Strategic Management	03	7	Production & Total Quality Management	03
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>

*List of Skill Enhancement Courses (SEC) for Semester III (Any Two)		**List of Skill Enhancement Courses (SEC) for Semester IV (Any Two)	
1	Foundation Course (Environmental Management) - III	1	Foundation Course (Ethics & Governance) - IV
2	Foundation Course-Contemporary Issues - III	2	Foundation Course-Contemporary Issues - IV
3	Foundation Course in NSS - III	3	Foundation Course in NSS - IV
4	Foundation Course in NCC - III	4	Foundation Course in NCC - IV
5	Foundation Course in Physical Education - III	5	Foundation Course in Physical Education - IV

**Note : Course selected in Semester I will continue in Semester III & IV**

*List of group of Elective Courses (EC) for Semester III (Any Two)		**List of group Elective Courses (EC) for Semester IV (Any Two)	
<b>Group A : Finance Electives (Any Two Courses)</b>			
1	Basics of Financial Service	1	Financial Institutions & Markets
2	Introduction to Cost Accounting	2	Auditing
3	Equity & Debt Market	3	Strategic Cost Management
4	Corporate Finance	4	Corporate Restructuring
<b>Group B : Marketing Electives (Any Two Courses)</b>			
1	Consumer Behavior	1	Integrated Marketing Communication
2	Product Innovations Management	2	Rural Marketing
3	Advertising	3	Event Marketing
4	Social Marketing	4	Tourism Marketing
<b>Group C : Human Resource Electives (Any Two Courses)</b>			
1	Recruitment & Selection	1	Human Resource Planning & Information System
2	Motivation and Leadership	2	Training & Development in HRM
3	Employees Relations & Welfare	3	Change Management
4	Organisation Behaviour & HRM	4	Conflict & Negotiation

**Note : Group selected in Semester - III will continue in Semester - IV**



## T.Y. BMS

(Implemented from Academic Year 2018 - 2019)

No. of Courses	Semester - IV	Credits	No. of Courses	Semester - VI	Credits
1	<b>Elective Courses (EC)</b>		1	<b>Elective Course (EC)</b>	
1,2,3 & 4	*Any four courses from the following list of the courses	12	1,2,3 & 4	**Any four courses from the following list of the courses	12
2	<b>Core Courses (CC)</b>		2	<b>Core Courses (CC)</b>	
5	Logistics & Supply Chain Management	04	5	Operation Research	04
3	<b>Ability Enhancement Course (AEC)</b>		3	<b>Ability Enhancement Course (AEC)</b>	
6	Corporate Communication & Public Relations	04	6	Project Work	04
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>

✓ **Note :** Project work is considered as a special course involving application of knowledge in solving / analyzing / exploring a real life situation / difficult problem. Project work would be of 04 credits. A project work may be undertaken in any area of Elective Courses / study area selected

*List of group of Elective Courses (EC) for Semester V (Any Four)		**List of group of Elective Courses (EC) for Semester VI (Any Four)	
<b>Group A : Finance Electives</b>			
1	Investment Analysis & Portfolio Management	1	International Finance
2	Commodity & Derivatives Market	2	Innovative Financial Services
3	Wealth Management	3	Project Management
4	Financial Accounting	4	Strategic Financial Management
5	Risk Management	5	Financing Rural Development
6	Direct Taxes	6	Indirect Taxes
<b>Group B : Marketing Electives</b>			
1	Services Marketing	1	Brand Management
2	E-Commerce & Digital Marketing	2	Retail Management
3	Sales & Distribution Management	3	International Marketing
4	Customer Relationship Management	4	Media Planning & Management
5	Industrial Marketing	5	Sports Marketing
6	Strategic Marketing Management	6	Marketing of Non Profit Organisation
<b>Group C : Human Resource Electives</b>			
1	Finance for HR Professional & Compensation Management	1	HRM in Global Perspective
2	Strategic Human Resource Management & HR Policies	2	Organisational Development
3	Performance Management & Career Planning	3	HRM in Service Sector Management
4	Industrial Relations	4	Workforce Diversity
5	Talent & Competency Management	5	Human Resource Accounting & Audit
6	Stress Management	6	Indian Ethos in Management
<b>Note :</b> Group selected in Semester - III will continue in Semester - V & Semester VI			

Board of Studies-in-Business Management, University of Mumbai



**Number of Students : A batch consist of not more than 60 students.**

**Eligibility for Admission :**

A candidate for being eligible for admission to the B.M.S. degree Course shall have passed XIIth std. Examination of the Maharashtra State Board of Secondary & Higher Secondary Education or It equivalent examination OR Diploma in any Engineering branches with two years or three years or four years duration after the S.S.C. conducted by the Board of Technical Education, Maharashtra State or equivalent examination. Minimum marks required for Open category are 45% and for Reserved category 40% [O.3941 - UG / 169 pf 2007 dated 23rd April 2007].

The admissions are purely based on merit duly following the reservation policy as per the norms of Government of Maharashtra. Admissions through merit will be given to students from Arts, Commerce and Science stream at 12th Standard as under (Admission Quota) :

Stream	Commerce	Arts	Science	Diploma
Percentage	45%	25%	25%	5%

**SCHEME OF EXAMINATION :**

- I) The examinations will be conducted at the end of semester.
- II) A paper will carry 100 marks. The evaluation of the performance of the students in the paper will be on the basis of both Internal Assessment (25%) and Semester End Examination (75%) Internal evaluation will be on the basis of class assignments, group discussion, seminar attendance, etc. Thus the 100 marks paper / subject is divided into 75 marks Theory / Semester End Examination and 25 marks Internal Assessment. The Semester and examination will be held at the end of each Semester and shall be of 2 hours duration.
- III) Examinations for First 4 Semester will be carried out at College level whereas Semester V and VI will be carried out by University. (R 4165)

**STANDARDS OF PASSING :**

[Regulation 4166 - UG 257 of 2010 dated 18th August 2010]

**REGULATION 4166**

**I) PASSING STANDARD AND PERFORMANCE GRADING : PASSING STANDARD**

A student shall have to obtain a minimum of 40% marks in aggregate for each theory paper (where the theory paper consist of Internal Assessment & Semester End Examination with 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 subject and minimum of grade C in each project wherever applicable to pass a particular semester.

**PERFORMANCE GRADING**

The PERFORMANCE GRADING of a learner shall be on the TEN point ranking system as given on Page No. 41 to 44.

The performance grading shall be based on the aggregate performance of Internal Assessment and Semester End Examination.

**II) CARRY FORWARD OF THE MARKS IN CASE IF THE STUDENT FAILS IN ONE OR MORE SUBJECT :**

- a) A student who PASSES in the Internal Examination but FAILS in the Semester End Examination of the theory paper shall reappear for the Semester End Examination of that theory paper. However his / her marks of the Internal Examination shall be carried over but he / she shall be entitled for grade "E" on passing.
- b) A student who PASSES in the Semester End Examination but FAILS in the Internal Examination of the theory paper shall reappear for the Internal Examination of that theory paper. However his / her marks of the Semester End Examination shall be carried over but he / she shall be entitled for grade "E" on passing.



The Internal Examination for reappearing students will consist of one project of 25 marks which will be divided into 20 marks for the hard copy of the project. 5 marks for the presentation

### III) ALLOWED TO KEEP TERMS (ATKT) :

A.T.K.T. Rules are as given on page Nos. 41 to 44.

### ADDITIONAL EXAMINATION :

There will be one additional examination for semester I, II, III and IV for those who have remained absent for the exam on medical ground / NSS / NCC activities. The absent student will be allowed to appear for the examination by the head of the institution / after following the necessary formalities of medical / special ground.

### EVALUATION OF PROJECT :

- a student who PASSES IN ALL THE THEORY PAPERS BUT DOES NOT secure minimum grade of C in project as applicable has to resubmit a fresh project till he / she secures a minimum of grade C. His / her marks in the theory papers that the student has passed will be carried forward but he /she shall be entitled for grade "E" on passing.
- The evaluation of project and viva-voce examination shall be by awarding grade in the seven point scale as given in (I) above.
- A student shall have to obtain minimum of grade C (or its equivalent marks) in project evaluation and viva / voce taken together to obtain 40% marks in project work.

### FEE STRUCTURE FOR B.M.S.

Fee Head	F.Y.B.M.S. (Rs.)	S.Y.B.M.S. (Rs.)	T.Y.B.M.S. (Rs.)
Tuition Fee	10000	10000	10000
Gymkhana Fee	400	400	400
Library Fee	300	300	300
Other Fee	280	300	250
Laboratory Fee	2000	2000	2000
Examination Fee	1990	1990	2240
University Enrolment Fee	220	-	-
Admission Processing Fee	200	200	200
Students Aid Fund	50	50	50
I Card & Library Card Fee	50	50	50
Sports & Cultural Activities Fee	30	30	30
Vice-Chancellor's Fund	20	20	20
E-Charges	20	20	20
E-Suvidha	50	50	50
Group Insurance	40	40	40
Utility Fee	250	250	250
Development Fund	500	500	500
Project Fee	-	-	1000
<b>Total Annual Fee</b>	<b>16400</b>	<b>16200</b>	<b>17400</b>

\* Fees are subject to modification as per University Rules.

\* Fee Applicable to Reserve Category students is as per Government rules. Fee concession to Reserve Category Students is subject to fulfillment of conditions and criteria laid down by the Government Department from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPAL A. V. COLLEGE", payable at Mumbai / Vasai Road.



## BACHELOR OF COMMERCE (BANKING & INSURANCE)

### INTRODUCTION :

The arrival of market-oriented approach, globalization, reforms and competitions in the banking and Insurance sector and the need to equip prospective banking and insurance professional to face the challenges ahead, the University of Mumbai has developed a degree course in Banking and Insurance for the students who aspire to make a career in Banking and Insurance. This course will provide the student, a greater in-depth knowledge of different aspects of Banking, Insurance and other financial services and a thorough understanding of the practical application of the theory. The Banking & Insurance degree aims to inculcate training and practical approach among the students by using modern technologies and also to give an adequate exposure to operational environment the field of Banking, Insurance and other related financial services.

The Bachelor of Commerce (Banking & Insurance) course will have the following structure :

1. The course is a full time course with duration of Six Semesters spread over three years.
2. The course consists of 40 subjects comprising of 38 theory papers and 2 project.
3. Total number of lectures per theory paper will be a maximum of 50 and a maximum of 55 minutes duration.

### COURSE STRUCTURE

**Bachelor of Management Studies (BMS) Programme**  
**Under Choice Based Credit, Grading and Semester System**  
**[UG/109 of 2016-17 Dated 27th October 2016]**  
**(Implemented from Academic Year 2016 - 2017)**

#### F.Y.B.Com. (Banking & Insurance)

No. of Courses	Semester - I	Credits	No. of Courses	Semester - II	Credits
1	<b>Elective Courses (EC)</b>		1	<b>Elective Course (EC)</b>	
1	Environment & Mgmt. of Financial Service	03	1	Principles & Practices of Banking & Insurance	03
2	Principles of Management	03	2	Business Law	03
3	Financial Accounting - I	03	3	Financial Accounting - II	03
2	<b>Ability Enhancement Courses (AEC)</b>		2	<b>Ability Enhancement Courses (AEC)</b>	
2A	<b>Ability Enhancement Compulsory Courses (AECC)</b>		2A	<b>Ability Enhancement Compulsory Courses (AECC)</b>	
4	Business Communication - I	03	4	Business Communication - II	03
2B	<b>*Skill Enhancement Course (SEC)</b>		2B	<b>**Skill Enhancement Courses (SEC)</b>	
5	Any one course from the following list of courses	02	5	Anyone course from the following list of courses	02
3	<b>Core Courses (CC)</b>		3	<b>Core Courses (CC)</b>	
6	Business Economics - I	03	6	Organisational Behaviour	03
7	Quantitative Method - I	03	7	Quantitative Method - II	03
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>



*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		**List of Skill Enhancement Courses (SEC) for Semester II (Any One)	
1	Foundation Course - I	1	Foundation Course - II
2	Foundation Course in NSS - I	2	Foundation Course in NSS - II
3	Foundation Course in NCC - I	3	Foundation Course in NCC - II
4	Foundation Course in Physical Education - I	4	Foundation Course in Physical Education - II

**Note : Course selected in Semester - I will continue in Semester - II**

### S.Y.B.Com. (Banking & Insurance) (Implemented from Academic Year 2017 - 2018)

No. of Courses	Semester - I	Credits	No. of Courses	Semester - II	Credits
1	Elective Courses (EC)		1	Elective Course (EC)	
1,2 & 3	*Any three courses from the following list of the courses	09	1,2 & 3	**Any three courses from the following list of the courses	09
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Courses (AECC)		2A	Ability Enhancement Compulsory Courses (AECC)	
4	Information Technology in Banking and Insurance - I	03	4	Information Technology in Banking and Insurance - II	03
2B	*Skill Enhancement Course (SEC)		2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02	5	Any one course from the following list of the courses	02
3	Core Courses (CC)		3	Core Courses (CC)	
6	Financial Markets	03	6	Corporate & Securities Law	03
7	Direct Taxation	03	7	Business Economics - II	03
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>

*List of Skill Enhancement Courses (SEC) for Semester III (Any One)		**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)	
1	Foundation Course - III (An Overview of Banking Sector)	1	Foundation Course - IV (An Overview of Insurance Sector)
2	Foundation Course - Contemporary Issues - III	2	Foundation Course - Contemporary Issues - IV
3	Foundation Course in NSS - III	2	Foundation Course in NSS - IV
4	Foundation Course in NCC - III	3	Foundation Course in NCC - IV
5	Foundation Course in Physical Education - III	4	Foundation Course in Physical Education - IV

*List of Elective Courses (EC) for Semester III (Any Three)		**List of Elective Courses (EC) for Semester IV (Any Three)	
1	Financial Management - I	1	Financial Management - II
2	Management Accounting	2	Cost Accounting
3	Organizational Behaviour	3	Entrepreneurship Management
4	Risk Management	4	Wealth Management
5	Mutual Fund Management	5	Customer Relationship Management

**Note : Course selected in Semester - III will continue in Semester - IV**



## T.Y.B.Com. (Banking & Insurance) (Implemented from Academic Year 2018 - 2019)

No. of Courses	Semester - V	Credits	No. of Courses	Semester - VI	Credits
1	<b>Elective Courses (EC)</b>		1	<b>Elective Course (EC)</b>	
1,2,3 & 4	*Any four courses from the following list of the courses	12	1,2,3 & 4	**Any four courses from the following list of the courses	12
2	<b>Core Courses (CC)</b>		2	<b>Core Courses (CC)</b>	
5	International Banking & Finance	04	5	Central Banking	04
3	<b>Ability Enhancement Course (AEC)</b>		3	<b>Ability Enhancement Course (AEC)</b>	
6	Research Methodology	04	6	Project Work - in Banking & Insurance	04
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>

**Note:** Project work is considered as a special course involving application of knowledge in solving / analyzing / exploring a real life situation / difficult problem. Project work would be of 04 credits each. A project work may be undertaken in any area of Elective Courses / study area

*List of Elective Courses for Semester V (Any Four)		**List of Elective Courses for Semester VI (Any Four)	
1	Financial Reporting & Analysis (Corporate Banking & Insurance)	1	Security Analysis and Portfolio Management
2	Auditing - I	2	Auditing - II
3	Strategic Management	3	Human Resource Management
4	Financial Services Management	4	Turnaround Management
5	Business Ethics & Corporate Governance	4	International Business
6	Actuarial Analysis in Banking & Insurance	6	Marketing in Banking & Insurance

**Number of Students : A batch consist of not more than 120 students.**

### Eligibility for Admission :

A candidate for being eligible for admission to the Bachelor of Commerce (Banking and Insurance) Degree Course shall have passed XIIth std. Examination of the Maharashtra State Board of Secondary & Higher Secondary Education examination and secured not less than 45% marks in aggregate (40% in case of reserved category) at ONE AND THE SAME SITTING. Admissions are purely based on merit duly following the reservation policy as per the norms of Government of Maharashtra. Admissions will be strictly on merit, i.e. on the basis of marks obtained at HSC or equivalent examination.

### SCHEME OF EXAMINATION AND PASSING STANDARDS :

Regulation 4298-Ug256 of 2010 dated 18 August 2010

The Scheme of Examination is divided into two parts

- A) Internal Assessment : 25% i.e. 25 marks
- B) Semester End Examinations : 75% i.e. 75 marks.

Student shall have to obtain minimum 40% marks in aggregate, i.e. 40% marks in Internal Assessment (i.e. 40% of 25=10) as well as 40% marks in Semester End Examination (i.e. 40% of 75=30) separately in order to pass the examination.



## A) Internal Assessment - 25 Marks

The allocation of 25 marks is as follows :

- a) One class test held in the given Semester - 20 marks.
- b) Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities.

## B) Semester End Examination - 75 Marks

- a) Duration - This examination is of 2.5 Hrs. duration
- b) Question paper pattern :
  - i) There shall be five questions each of 15 marks.
  - ii) All questions shall be compulsory with internal choice within the question.
  - iii) Questions may be subdivided into sub-questions a, b, c and the allocation of marks depends on the weightage of the topic.

## I) PASSING STANDARDS :

### PERFORMANCE GRADING

The PERFORMANCE GRADING of a learner shall be on the TEN point ranking system as given on Page No. 41 to 44

The performance grading shall be based on the aggregate performance of Internal Assessment and Semester End Examination.

## II) CARRY FORWARD OF THE MARKS IN CASE IF THE STUDENT FAILS IN ONE OR MORE SUBJECT :

- a) A student who PASSES in the Internal Examination but FAILS in the Semester End Examination of the theory paper shall reappear for the Semester End Examination shall be carried over but he / she shall be entitled for grade "E" on passing.
- b) A student who PASSES in the Semester End Examination but FAILS in the Internal Examination of the theory paper shall reappear for the Internal Examination of that theory paper. However his / her marks of the Semester End Examination shall be carried over but he / she shall be entitled for grade "E" on passing.

The Internal Examination for reappearing students will consist of one project of 40 marks which will be divided into 20 marks for the hard copy of the project. 10 marks for the presentation and 10 marks for the viva.

## III) ALLOWED TO KEEP TERMS (ATKT) :

A.T.K.T. Rules are as given on page Nos. 41 to 44.



### ADDITIONAL EXAMINATION :

There will be one additional examination for semester I, II, III and IV for those who have remained absent for the exam on medical / NSS / NCC ground. The absent student will be allowed to appear for the examination by the head of the institution, after following the necessary formalities of medical / special ground.

### EVALUATION OF PROJECT :

- a student who PASSES IN ALL THE THEORY PAPERS BUT DOES NOT secure minimum grade of C in project as applicable has to resubmit a fresh project till he / she secures a minimum of grade C. His / her marks in the theory papers that the student has passed will be carried forward but he / she shall be entitled for grade "E" on passing.
- The evaluation of project and viva-voce examination shall be by awarding grade in the seven point scale as given in (I) above.
- A student shall have to obtain minimum of grade C (or its equivalent marks) in project evaluation and viva / voce taken together to obtain 40% marks in project work.

Note :- Passing Standards, Repeat Exam, Rules are subjects to changes that are made effective by the University of Mumbai from time - to - time.

### FEE STRUCTURE FOR B.Com. (Banking & Insurance)

Fee Head	First Year B.Com. (B & I) Rupees	Second Year B.Com. (B & I) Rupees	Third Year B.Com. (B & I) Rupees
Tuition Fee	10000	10000	10000
Gymkhana Fee	400	400	400
Library Fee	300	300	300
Other Fee	280	300	250
Laboratory Fee	2000	1000	1000
Examination Fee	1990	1990	2240
University Enrolment Fee	220	-	-
Admission Processing Fee	200	200	200
Students Aid Fund	50	50	50
I Card & Library Card Fee	50	50	50
Sports & Cultural Activities Fee	30	30	30
Vice-Chancellor's Fund	20	20	20
E-Charges	20	20	20
E-Suvidha	50	50	50
Group Insurance	40	40	40
Utility Fee	250	250	250
Development Fund	500	500	500
Project Fee	-	-	1000
<b>Total Annual Fee</b>	<b>16400</b>	<b>15200</b>	<b>16400</b>

\* Fees are subject to modification as per University Rules.

\* Fee Applicable to Reserve Category students is as per Government rules. Fee concession to Reserve Category Students is subject to fulfillment of conditions and criteria laid down by the Government Department from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPALA.V. COLLEGE", payable at Mumbai / Vasai Road.



## M.Sc. COMPUTER SCIENCE & M.Sc. INFORMATION TECHNOLOGY

### Introduction :

In order to meet the requirements of software professionals, programmers and the other middle level management cadre. University of Mumbai has granted permission to start M.Sc. Computer Science Course by papers from the academic year 2005-06. The course is of two years duration and covers topics such as compiler design, digital signal processing, mobile computing, computer simulation and modeling, data warehousing and mining and advanced data base system, artificial intelligence, image processing, distributed computing and embedded system. The student can select the elective from many options. After completing this course, the student can join any software industry or education field or undertake research. The college is planing to provide placement service to all the post graduate students of Computer Science and Information Technology. The college has well-equipped Computer Laboratory with structure cabling, 100 computers connected to network under and a good collection of reference books.

### M.Sc. COMPUTER SCIENCE

#### Admission criterion for M.Sc. Computer Science by papers :

For admission to M.Sc. Computer Science the following conditions will apply :

1. There will be 20 Students per batch. All the admission will be on merit (i.e. percentage of aggregate marks secured for the qualifying examination), Reservation criterion should be followed as prescribed by government at the time of admission.
2. The students who have passed following Degree examination are eligible for admission to M.Sc. (Computer Science) Degree Course.

B.Sc. Information Technology with minimum 45 percent marks.

OR

B.Sc. Computer Science with in 45 percent marks.

OR

B.Sc. with minimum 45 percent marks.

OR

BE in IT / Electronics. Telecom / Computer Science with minimum 45 percent marks.

OR

B.Sc. (old course) Degree examination with the combination of following subjects :

#### MAJOR

Mathematics

Physics

Statistics

#### ANCILLARY

Mathematics

Mathematics

Mathematics

OR

OR

**Registration as postgraduate student :** Every candidate admitted for M.Sc. CS will have to register as a postgraduate student of Mumbai University.



The syllabus proposes four subjects for each of the semester, Each subject has theory as well as practical components. The theory component offers 4 credits and practical component offers 2 credits. Thus, each semester is of 24 credits. The four subjects in the first semester are Principles of Compiler Design - I, Digital Signal Processing I, Mobile Computing, and Data warehousing and mining. The second semester offers Principles of Compiles Design - II, Digital Signal Processing - II, Computer Simulation and Modelling, and Advanced Database Systems. Each of the theory paper has five units and is expected to cover in 60 lecture periods. Each of the practical paper is of 60 hours duration.

### M.Sc. (Computer Science) Based on Credit and Grading System Semester - I

Paper Code	Paper Nomenclature	Lect-ures	Credit	Pract. Paper	Hrs	Credit	Total Credit
PSCS101	Analysis of Algorithms & Researching Computing	60	04	I	60	02	06
PSCS102	Advanced Networking Concepts	60	04	II	60	02	06
PSCS103	Advanced Database Systems	60	04	III	60	02	06
PSCS104	Robotics and Artificial Intelligence	60	04	IV	60	02	06
Total for M.Sc. Semester - I				-	-	-	24

### Semester - II

Paper Code	Paper Nomenclature	Lect-ures	Credit	Pract. Paper	Hrs	Credit	Total Credit
PSCS201	Advanced Operating Systems	60	04	V	60	02	06
PSCS202	Design and Implementation of Modern Compiler	60	04	VI	60	02	06
<b>Elective I (Select One)</b>		60	04	VII	60	02	06
PSCS2031	Track A : Cloud Computing (Concepts and Design of Web Services)						
PSCS2032	Track B : Cyber and information Security (Network Security)						
<b>Elective II (Select One)</b>		60	04	VII	60	02	06
PSCS2041	Track C : Business Intelligence and Big Data Analytics (Business Intelligence)						
PSCS2042	Track D : Machine Intelligence (Fundamentals of Machine Intelligence)						
Total		-	16	-	-	08	24

**Note :** Course structure for M.Sc. Part - I is under process of revision and will be published by the University in due course of time.



The syllabus propose four papers and Project Based Learning Component consisting of a project to be done in Semester IV. Each Paper in Semester III and IV has theory as well as practical component consisting of 4 credits for theory and 2 credits practical.

Thus, Semester III is of 24 credits, Semester IV has an additional Component of project having 6 credits. Thus Semester IV has in all 30 (24+6) credits. Each of the theory courses has four units and is expected to cover in 60 lectures period. Each of the Practical courses is of 60 hours.

**NOTE :** A.T.K.T. Rules for M.Sc. programme (CBSGS) are given on page No. 44

### Semester III - Theory Courses

Course Code	Course Title	Lectures in Hours	Credits
PSCS301	Ubiquitous Computing	60	4
PSCS302	Social Network Analysis	60	4
PSCS3031	<b>Elective I - Track A :</b> Cloud Computing - II (Cloud Computing Technology)	60	4
PSCS3032	<b>Elective I - Track B :</b> Cyber and Information Security - II (Cyber Forensics)		
PSCS3033	<b>Elective II - Track C :</b> Business Intelligence and Data Analytics - II (Mining Massive Data sets)	60	4
PSCS3034	<b>Elective II - Track D :</b> Machine Learning - II (Advanced Machine Learning)		
Total Credits for Theory courses in Semester - III			16

### Semester III - Practical Laboratory Courses

Course Code	Course Title	No. of Hours	Credits
PSCSP5	Ubiquitous Computing & Social Network Analysis	60+60=120	4
PSCSP6	Elective I and Elective II (PROJECT PROPOSAL)	60+60+120	4
Total Credits for Practical Laboratory courses in Semester - III			8

**Project Proposal :** The syllabus introduces a project proposal in the semester - III under Lab courses PSCSP6. As per this, a student is expected to select a topic for project based on the specialization he or she is planning to take in the semester - IV.



## Semester - IV

The syllabus proposes two subjects in semester - IV, each with theory and practical components. In addition, there will be internship with industry and a project implementation. The important feature of the semester - IV is the specialization a student can choose. A student can choose a specialization based on the electives one has been pursuing since semester - II. Since there are two electives in semester - III, a student can drop one and choose the other as the specialization in semester - IV.

### Semester IV - Theory Courses

Course Code	Course Title	Lectures in Hours	Credits
PSCS401	Simulation and Modeling	60	4
PSCS4021	Specialization - Track A : Cloud Computing - III (Building Clouds & Services)	60	4
PSCS4022	Specialization - Track B : Cyber and Information Security - II (Cryptography and Crypt Analysis)		
PSCS4023	Specialization - Track C : Business Intelligence and Big Data Analytics - II (Intelligent Data Analysis)		
PSCS4024	Specialization - Track D : Machine Learning - III (Computational Intelligence)		
Total Credits for Theory courses in Semester - IV			8

### Semester IV - Practical Courses

Course Code	Course Title	No. of Hours	Credits
PSCSP7	Simulation & Modeling and Specialization	60+60=120	4

### Semester IV - Internship

Course Code	Course Title	No. of Hours	Credits
PSCSP8	Internship with Industry	300	6

### Semester IV - Project Implementation

Course Code	Course Title	No. of Hours	Credits
PSCSP9	Project Implementation	200	6



## M.Sc. INFORMATION TECHNOLOGY

The subject of Information Technology is one of the important application tool which can be applied to different areas in teaching, training and learning which is considered to be important in terms of human resource development, Information Processing and Decision Making which enhances the development of a Nation. Information Technology as an application science applicable for other areas, right from Mathematics to other basic sciences, applied sciences, social sciences and each and every aspect of human life.

The main aim of the course is to focus on the technological tools and concepts available and how they can be applied to the developmental processes. The various concepts include Simulation, Mobile Computing, Networking, Artificial Intelligence, Distributed Computing, Multimedia, Data warehousing, Data mining, Digital Image Processing, Digital Signal Processing, Speech Recognition, Software Architecture, cloud computing and so on.

Information technology Experts are very much required right from academic institutions, Research and Development to Industries both Public and Private Sectors. The two year programme of M.Sc. (Information Technology) is prescribed according to the credit system of University of Mumbai from the academic year 2012-13. The course has been divided in to four semester. The programme has a total 16 theory papers, and four in each semester. The programme is designed to provide students a focused elaborate training in Information Technology concepts and tools as well as exposing them to the advanced fields. In addition to theoretical knowledge, significant emphasis has been given to provide hands on experience to the students in the frontier areas of Information Technology. A multidisciplinary approach has been employed to provide best leverage to students to enable them move into advanced and frontier areas of interdisciplinary research in the future.

### Admission criterion for M.Sc. Information Technology by papers :

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

1. There will be 20 Students per batch. All the admission will be on merit (i.e. percentage of aggregate marks secured for the qualifying examination). Reservation criterion should be followed as prescribed by government at the time of admission.
2. The students who have passed following B.Sc. Degree examination to Mumbai University or any recognized university are eligible.

B.Sc. Information Technology with minimum 45 percent marks.

OR

B.Sc. Computer Science with in 45 percent marks.

OR

B.Sc. with minimum 45 percent marks.

OR

BE in IT/Electionics. Telecom/Compuer Science with minilum 45 percent marks.

**Registration as postgraduate student :** Every candidate admitted for M.Sc.IT. will have to register as a postgraduate student of Mumbai University.



## M.Sc. Information Technology Based on Credit and Grading System

### M.Sc. First Year Semester - I

Paper Code	Paper Nomenclature	Lect-ures	Credit	Pract. Paper	Hrs	Credit	Total Credit
PSIT101	Data Mining	60	04	PSIT1P1	60	02	06
PSIT102	Distributed System	60	04	PSIT1P2	60	02	06
PSIT103	Data Analysis Tools	60	04	PSIT1P3	60	02	06
PSIT104	Software Testing	60	04	PSIT1P4	60	02	06
	Total			-	-	-	24

### M.Sc. First Year Semester - II

Paper Code	Paper Nomenclature	Lect-ures	Credit	Pract. Paper	Hrs	Credit	Total Credit
PSIT201	Mobile Computing	60	04	PSIT2P5	60	02	06
PSIT202	Advanced Computer Networks	60	04	PSIT2P6	60	02	06
PSIT203	Cloud Computing and Ubiquitous System	60	04	PSIT2P7	60	02	06
PSIT204	Advanced Database Systems	60	04	PSIT2P8	60	02	06
	Total			-	-	-	24

### M.Sc. Second Year Semester - III

Paper Code	Paper Nomenclature	Lect-ures	Credit	Pract. Paper	Hrs	Credit	Total Credit
PSIT301	Embedded Systems	60	04	PSIT3P1	60	02	06
PSIT302	Information Security Management	60	04	PSIT3P2	60	02	06
	<b>Elective 1</b>	60	04	<b>Elective 1</b>	60	02	06
PSIT303a	Virtualization			PSIT3P3a			
PSIT304b	Artificial Neural Networks			PSIT3P3b			
	<b>Elective 2</b>	60	04	<b>Elective 2</b>	60	02	06
PSIT304a	Digital Image Processing			PSIT3P4a			
PSIT304b	Ethical Hacking			PSIT3P4b			

### M.Sc. Second Year Semester - IV

Paper Code	Paper Nomenclature	Lect-ures	Credit	Pract. Paper	Hrs	Credit	Total Credit
PSIT401	Artificial Intelligence	60	04				04
PSIT402	IT Infrastructure Management	60	04				04
	<b>Elective 1</b>	60	04	<b>Elective 1</b>	60	02	06
PSIT403a	Intelligent Systems			PSIT4P3a			
PSIT403b	Real Time Embedded Systems			PSIT4P3b			
PSIT403c	Computer Forensics			PSIT4P3c			
	<b>Elective 2</b>	60	04	<b>Elective 2</b>	60	02	06
PSIT404a	Design of Embedded Control Systems			PSIT4P4a			
PSIT404b	Advanced Image Processing			PSIT4P4b			
PSIT404c	Cloud Management			PSIT4P4c			
PSIT405	Project		02	PSIT4P5		02	04

Total credits for M.Sc. Part II = (Sem III - 24 and sem IV-24) = 48

**Evaluation :** The students will be evaluated externally. The external evaluation will be done by the committee appointed by the University norms. Standard of passing and scale as per the university norms.

**NOTE :** 1) Course structure for M.Sc. Part - I is under process of revision and will be published by the University in due course of time.

2) A.T.K.T. Rules for M.Sc. Programme (CBSGS) are given on page Nos. 44



## Fee Structure per annum for M.Sc. Computer Science & Information Technology

Fee Head	M.Sc. (CS) Part - I (Rs.)	M.Sc. (CS) Part - II (Rs.)	M.Sc. (IT) Part - I (Rs.)	M.Sc. (IT) Part - II (Rs.)
Tuition Fee	15000	15000	15000	15000
Gymkhana Fee	400	400	400	400
Library Fee	1000	1000	1000	1000
Other Fee	250	250	250	250
Laboratory Fee	15000	15000	15000	15000
Examination Fee	2835	3085	2835	3085
University Enrolment Fee	1000	-	1000	-
Admission Processing Fee	200	200	200	200
Students Aid Fund	50	50	50	50
I Card & Library Card Fee	50	50	50	50
Sports & Cultural Activities Fee	30	30	30	30
Vice-Chancellor's Fund	20	20	20	20
E-Charges	20	20	20	20
Group Insurance	40	40	40	40
Utility Fee	250	250	250	250
Development Fund	500	500	500	500
<b>Total Annual Fee</b>	<b>36645</b>	<b>35895</b>	<b>36645</b>	<b>35895</b>
First Term Fee	26645	25895	26645	25895
Second Term Fee (Tuition Fee)	10000	10000	10000	10000

\* Fees are subject to modification as per University Rules.

\* Fee Applicable to Reserve Category students is as per Government rules. Fee concession to Reserve Category Students is subject to fulfillment of conditions and criteria laid down by the Government Department from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPAL A. V. COLLEGE", payable at Mumbai / Vasai Road.



## MASTER OF ARTS IN HISTORY

Without the knowledge of history a person can never claim himself/herself to be totally aware of the things in and around them. A Master's Degree in History a programme offered by college is a good way for students to develop mastery in a particular field or subject area, expand their critical thinking skills, and learn to solve complex problems.

An MA in History allows students to study how culture and history have interacted over time, exploring the rich world of human expression. Graduates usually emerge from their program with a deep understanding of historical trends and visual studies, as well as a number of critical thinking and problem solving skills.

There are many benefits to obtaining an MA in History. It is a great way to build skills, learn more about forms of expression, and cultivate an appreciation for various cultures. Master's Degree Programme in History would be of great use for students who wish to pursue career in research, archaeology, epigraphy, travels and tourism, cracking competitive exams like UPSC/MPSC, to become curator, librarian and historian, career in TV and film industry, teaching at all levels, personnel working in various institutions associated with history and culture, and others..This course is also a good step towards obtaining a PhD in the future.

### Admission criterion for M.A. in History by Papers:

For admission to M.A. in History, following conditions will apply:

1. There will be total **100** seats (50 seats per batch). All the admissions will be on Merit. (i.e. on the basis of percentage of aggregate marks secured in the qualifying examination). Reservation criteria will be followed as prescribed by the Government at the time of admission.
2. The student who has passed B.A. Degree Examination of Mumbai University or any recognized University having studied History as a subject at Degree Level is eligible to apply for the course.

Registration as Post Graduate Student: Confirmation of Admission is subject to Registration as Post Graduate student by the University of Mumbai.



## M.A. History

Based on Choice Based Credit System with effect from the Academic year 2017-2018

### M.A. History Semester - I

Paper Code	Paper Nomenclature
2511	RESEARCH METHODS IN HISTORY
2512	SOC. ECONOMIC & ADMINISTRATIVE HISTORY OF EARLY INDIA (UPTO 1000CE)
2513	SOC. ECONOMIC & ADMINISTRATIVE HISTORY OF MEDIEVAL INDIA (1200CE-1700CE)
2514	SOCIAL, ECONOMIC & ADMINISTRATIVE HISTORY OF MODERN INDIA (1757CE-1947CE)

### M.A. History Semester - II

Paper Code	Paper Nomenclature
2511	PHILOSOPHY OF HISTORY
2512	HISTORY OF CONTEMPORARY INDIA
2513	MILESTONES IN WORLD HISTORY (1750 CE – 1960 CE)
2514	HISTORY OF EMANCIPATORY MOVEMENTS IN MODERN WORLD

### M.A. History Semester - III

Paper Code	Paper Nomenclature
2516	HISTORY, CULTURE & HERIAGE OF MUMBAI (1850 CE – 1990 CE)
2526	HISTORY OF INDIA'S MARITIME HERITAGE (16TH & 17TH CENTURIES)
2535	INDIAN NATIONAL MOVEMENT (1857CE – 1947 CE)
2545	HISTORY OF COLONIAL INDIA (1757 CE – 1857 CE)
2560	HISTORY OF MODERN EUROPE

### M.A. History Semester - IV

Paper Code	Paper Nomenclature
2512	MARITIME HISTORY OF INDIA
2527	SOURCES IN HISTORICAL RESEARCH
2537	PROJECT (100 MARKS)



## MASTER OF ARTS IN ECONOMICS

A Master of Economics degree programme offered by college enables students to learn how to apply the economic principles to real-life situations. Master's degree in Economics allows graduates to hone their analytical skills and develop expertise to come up with innovative solutions to a diverse range of economic problems. It helps to learn how to master various econometric techniques and software. Given the broad scope of scenarios in which such a skills-set can be applied, a Master of Economics degree is rapidly becoming a popular choice for those pursuing graduate studies, alongside courses such as Finance and Management.

For students with a keen interest to pursue a variety of potential career paths, enrolling to a Masters Degree in Economics program may open up a variety of opportunities in banking, insurance, teaching, economics analysis, and administration as well in preparation of various competitive examinations. A Masters in Economics typically comprises advanced education in economic theory and applied economics.

Economics is the field of knowledge that is concerned with the production, consumption, and transfer of wealth. Professionals who study the production and distribution of resources, products and services by collecting and analyzing information, trends and economic issues are Economists. The degree may be considered a stepping-stone to doctoral level studies (college also conducts Ph.D. in Economics course) or a route for advancement in a current career.

### Admission criterion for M.A. in Economics by Papers:

For admission to M.A. in Economics, following conditions will apply:

1. There will be total 60 seats. All the admissions will be on Merit. (i.e. on the basis of percentage of aggregate marks secured in the qualifying examination). Reservation criteria will be followed as prescribed by the Government at the time of admission.
2. The student who has passed B.A. Degree Examination of Mumbai University or any recognized University having studied Economics as a subject at Degree Level is eligible to apply for the course.

Registration as Post Graduate Student: Confirmation of Admission is subject to Registration as Post Graduate student by the University of Mumbai.



## M.A. Economics

Based on Choice Based Credit System with effect from the Academic year 2017-2018

### M.A. Economics Semester - I

Paper Code	Paper Nomenclature
2611	MICRO ECONOMICS – I
2612	MACRO ECONOMICS - I
2613	STATISTICAL METHODS IN ECONOMICS
2614	ECONOMICS OF DEVELOPMENT

### M.A. Economics Semester - II

Paper Code	Paper Nomenclature
2611	PUBLIC ECONOMICS
2612	MATHEMATICAL TECHNIQUES FOR ECONOMISTS
2613	MICRO ECONOMICS – II
2614	MACRO ECONOMICS - II

### M.A. Economics Semester - III

Paper Code	Paper Nomenclature
2611	INTERNATIONAL TRADE: THEORY & POLICY
2613	ECONOMICS OF LABOUR MARKETS
2616	AGRICULTURAL DEVELOPMENT & POLICY
2617	BANKING : THEORY AND POLICY
2618	ENVIRONMENTAL ECONOMICS

### M.A. Economics Semester - IV

Paper Code	Paper Nomenclature
2611	International Finance
2614	Demography: Theory & Basic analysis
2615	Project (100 Marks)



## FEE STRUCTURE PER ANNUM FOR M.A. HISTORY AND ECONOMICS\*

Fee Head	M.A. (History) Part-I	M.A. (History) Part-II	M.A. (Economics) Part-I	M.A. (Economics) Part-II
Tuition Fee	3000	3000	3000	3000
Gymkhana Fee	400	400	400	400
Library Fee	1000	1000	1000	1000
Other Fee	250	275	250	275
University Registration Fee	1025	--	1025	00
University Examination Fee	2835	3085	2835	3085
Admission Processing Fee	200	200	200	200
Student Aid Fund	50	50	50	50
Identity Card Fee	50	50	50	50
University Sports & Cultural Activities Fee	30	30	30	30
Vice Chancellor's Fund	20	20	20	20
E-Charges & E-Suvidha	50	50	50	50
Group Insurance	40	40	40	40
Utility Fee	250	250	250	250
Development Fund	500	500	500	500
Project Fee	--	2000	--	2000
<b>Total Annual Fee</b>	<b>9700</b>	<b>10950</b>	<b>9700</b>	<b>10950</b>

\* Fees are subject to modification as per University Rules

\* Fee Applicable to Reserve Category students is as per Government rules. Fee concession to Reserve Category Students is subject to fulfillment of conditions and criteria laid down by the Government Departments from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPALA.V. COLLEGE", payable at Mumbai / Vasai Road.



## MASTER OF COMMERCE IN ADVANCED ACCOUNTANCY

The College offers Master of Commerce Degree programme with specialisation in Advanced Accounting. The course is designed to cater to the needs of students who desire extensive knowledge in the field of Accountancy. There are lots of career opportunities in field. It is one of the top career choices made by students in India. A post-graduate after completion of his/her degree can initially join as a trainee or an accountant. Accountants can also seek employment in various sectors such as in government and private sectors, public accounting firms, markets research, budget planning, corporations and consultancies. Professionals in this career can also opt for teaching jobs in universities and colleges. Graduate professionals can work as freelancers in this field. They can work separately by taking assignments from various types of ventures for maintaining their accounts on daily or weekly basis to yearly basis. For them there are lots of job opportunities available in India as well as in foreign countries too.

### Admission criterion for M.Com. in Advanced Accounting by Papers:

For admission to M.Com. in Advanced Accounting, following conditions will apply:

1. There will be total **60** seats. All the admissions will be on Merit. (i.e. on the basis of percentage of aggregate marks secured in the qualifying examination). Reservation criteria will be followed as prescribed by the Government at the time of admission.
2. The student who has passed B.Com. Degree Examination of Mumbai University or any recognized University at Degree Level is eligible to apply for the course.

Registration as Post Graduate Student: Confirmation of Admission is subject to Registration as Post Graduate student by the University of Mumbai.



## M.Com. (Advanced Accountancy)

Based on Choice Based Credit System with effect from the Academic year 2017-2018

### M.Com. (Advanced Accountancy) Semester - I

Paper Code	Paper Nomenclature
CB1SMC01	STRATEGIC MANAGEMENT
CB1EBC02	ECONOMICS FOR BUSINESS DECISION
CB1CMC03	COST & MANAGEMENT ACCOUNTING
CB1BEC04	BUSINESS ETHICS & CORPORATE SOCIAL RESPONSIBILITY

### M.Com. (Advanced Accountancy) Semester - II

Paper Code	Paper Nomenclature
CB2SMC01	RESEARCH METHODOLOGY FOR BUSINESS
CB2EBC02	MACRO ECONOMICS – CONCEPTS AND APPLICATIONS
CB2CMC03	CORPORATE FINANCE
CB2BEC04	E-COMMERCE

### M.Com. (Advanced Accountancy) Semester - III

Paper Code	Paper Nomenclature
CB3SMC01	ADVANCED FINANCIAL ACCOUNTING
CB3EBC02	DIRECT TAX
CB3CMC03	ADVANCED COST ACCOUNTING
CB3BEC06	PROJECT WORK – I

### M.Com. (Advanced Accountancy) Semester - IV

Paper Code	Paper Nomenclature
CB4SMC01	CORPORATE FINANCIAL ACCOUNTING
CB4EBC02	INDIRECT TAXES – INTRODUCTION OF GOODS AND SERVICES TAX
CB4CMC03	FINANCIAL MANAGEMENT
CB4BEC06	PROJECT WORK – II



## FEE STRUCTURE PER ANNUM FOR M.COM. (ADVANCED ACCOUNTANCY)

Fee Head	M.Com. Part – I	M.Com. Part – II
Tuition Fee	6000	6000
Gymkhana Fee	400	400
Library Fee	1000	1000
Other Fee	250	250
University Registration Fee	1025	00
University Examination Fee	2800	2800
Admission Processing Fee	200	200
Student Aid Fund	50	50
Identity Card Fee	50	50
University Sports & Cultural Activities Fee	30	30
Vice Chancellor's Fund	20	20
E-Charges & E-Suvidha	70	70
Group Insurance	40	40
Utility Fee	250	250
Development Fund	500	500
Project Fee	--	2000
<b>Total Annual Fee</b>	<b>12685</b>	<b>13660</b>

- \* \*Fees are subject to modification as per University Rules
- \* Fee Applicable to Reserve Category students is as per Government rules. Fee concession to Reserve Category Students is subject to fulfillment of conditions and criteria laid down by the Government Departments from time to time.

Fees will be accepted in the form of Demand Draft / Pay Order from Nationalised Banks favouring "PRINCIPAL A. V. COLLEGE", payable at Mumbai / Vasai Road.



The University of Mumbai has introduced Credit Based Semester and Grading Systems for UG and PG Programmes of Arts, Science & Commerce Faculties with effect from Academic Year 2011-2012 as an outcome of need of reforms in the Higher Education. TEN Point Credit Based Semester and Grading System is introduced by University w.e.f. academic year 2016-2017.

## FEATURES OF NEWLY INTRODUCED CHOICE BASED GRADING SYSTEM (CBGS)

### PASSING STANDARDS :

### PERFORMANCE GRADING

The PERFORMANCE GRADING of a learner shall be on the TEN point ranking system as under :

10 Point Grading System				
Marks	Grade	Grade Point	GPA	Performance
80 & Above	O	10	10	Outstanding
70 & 79.99	A+	9	9.0 to 9.99	Excellent
60 to 69.99	A	8	8.0 to 8.99	Very Good
55 to 59.99	B+	7	7.0 to 7.99	Good
50 to 54.99	B	6	6.0 to 6.99	Above Average
45 to 49.99	C	5	5.0 to 5.99	Average
40 to 44.99	D	4	4.0 to 4.99	Pass
39.99 to Below	F (Fail)	0		Fail

AB : Absent, / : Female, \$ : Carried Forward, F : Fail  
 @ : 0.5042A / 0.5043A / 0.5044A, \* : 0.5045A, # : 0.229 A/B

The performance grading shall be based on the aggregate performance of Internal Assessment and Semester End Examination.

## II) CARRY FORWARD OF THE MARKS IN CASE OF A LEARNER WHO FAILS IN THE INTERNAL ASSESSMENT AND/OR SEMESTER END ASSESSMENT IN ONE OR MORE SUBJECTS:

- 1) A learner who PASSES in the Internal Examination but FAILS in the Semester End Examination of the course shall reappear for the Semester End Examination of the course. However his/her marks of the internal Examinations shall be carried over but he/she shall be entitled for grade obtained by him / her on passing.
- 2) A learner who PASSES in the Semester End Examination but FAILS in the Internal Assessment of the course shall submit project carrying 20 marks for documentation and 5 marks for viva-voce of that course. However his/her marks of the Semester End Examination shall be carried over but he/she shall be entitled for grade obtained by him/her on passing.
- 3) **A) For Courses without practical**

In case of a learner who is reappearing for the Internal Examination, the examination will consist of one project of 25 marks which will be divided into 20 marks for the documentation of the project, 5 marks for the presentation.

### **B) For Courses with practical**

A learner fails in the Practical Examination will re-appear for the practical examination of that course in the forth coming semester-end examination



## ALLOWED TO KEEP TERMS (A.T.K.T.) [UG/52 of 2013-2014 Dated 26th August 2013]

Eligibility for Admission to all the Under Graduate Programs (aided and non-aided) in the FACULTIES OF ARTS AND COMMERCE under Credit Based Semester and Grading System with Amended R.8438 (with effect from 2012-13)

a.	A learner shall be allowed to keep term for Semester II irrespective of number of heads of failure in the Semester I
b.	A learner shall be allowed to keep term for Semester III if he/she passes each of Semester I & Semester II  <b>OR</b>  A learner who fails in not more than four courses of Semester I and Semester II taken together with <b>not more than two courses each in semester I &amp; II.</b>
c.	A learner shall be allowed to keep term for Semester IV irrespective of number of heads of failure in Semester III. However, the learner shall pass each course of Semester I and Semester II in order to appear for Semester IV.
d.	Eligibility criteria for a learner, to be admitted in Semester V (Third year) of UG programs (aided and non-aided) in Faculties of Arts and Commerce is amended as follows:  i) Shall have passed Semester I, II, III and IV in full  <b>OR</b>  ii) Shall have passed Semester I and II in full and secured ATKT in the Second year by failing in not more than Two Courses in each of Semester III and Semester IV  <b>OR</b>  iii) Shall have Secured ATKT in First Year by failing in not more than Two Courses in each of Semester I and Semester II and have passed Semester III and Semester IV in full
e.	A learner shall be allowed to keep terms for Semester VI irrespective of grades obtained in each course of Semester V. The result of Semester VI shall be kept in abeyance until the learner passes each of Semester I, Semester II, Semester III, Semester IV and Semester V in full.



**Eligibility for Admission to all the Under Graduate Programs (aided and non-aided) in the FACULTY OF SCIENCE under Credit Based Semester and Grading System with Amended R.8438 (with effect from 2012-13)**

a.	A learner shall be allowed to keep term for Semester II irrespective of number of heads of failure in the Semester I
b.	A learner shall be allowed to keep term for Semester III if he/she passes (grade 'E' or above in each course) each of Semester I and Semester II <b>OR</b> He/she fails in not more than <b>THREE</b> courses, in each of Semester-I and Semester II (For all Science Programmes, carrying total 900 or more marks). <b>He/she fails in not more than THREE courses with not more than total 200 marks, in each of Semester I and Semester II.</b> (For all Science Programmes, carrying less than total 900 marks.)
c.	A learner shall be allowed to keep term for Semester IV irrespective of grades obtained in each course of Semester III. However learner has to pass either of Semester I or Semester II in order to appear for Semester IV.
d.	Eligibility for admission to Semester V (Third year) of UG programs (aided and non-aided) in Faculty of Science is amended as follows: i) Learner shall have passed Semester I, II, III and IV in full <b>OR</b> ii) Learner shall have passed Semester I and Semester II in full and secured ATKT in Second Year by failing for programs with 900 and above marks in not more than three Courses in each of Semester III and IV <u>For programs with less than 900 marks</u> in not more than <b>three</b> Courses with not more than total 200 marks in each of Semester III & IV <b>OR</b> iii) Learner shall have passed Semester III and Semester IV in full and secured ATKT in First Year by failing in, <u>For programs with 900 and above marks</u> not more than <b>Three</b> Courses in each of Semester I and II <u>For programs with less than 900 marks</u> in not more than <b>Three</b> Courses with not more than total 200 marks in each of Semester I & II.
e.	A learner shall be allowed to keep terms for Semester VI irrespective of grades obtained in each course of Semester V.  The result of Semester VI shall be kept in abeyance until the learner passes each of Semester I, Semester II, Semester III, Semester IV and Semester V in full.



## ADDITIONAL EXAMINATION

### SEMESTER END EXAMINATIONS

There will one Additional Examination for Semester I, II, III and IV. The absent student will be allowed to appear for additional examination after following necessary procedures as per University Rules.

### ELIGIBILITY TO APPEAR FOR ADDITIONAL SEMESTER END EXAMINATION : R.8917

- A learner who does not appear in some or all the courses on medical grounds or for representing the college / university in Sports, Cultural Activities of N.S.S., N.C.C. or Sports Training Camps conducted by recognized bodies / competent authorities or for any other reason which is considered valid under exceptional circumstances and to the satisfaction of the Principal or the Head of the Institution is eligible to appear for the additional examination.
- The additional Semester and Examination shall be of two and half hours duration and of 75 marks per course. The learner shall appear for the reason as stated above. Learner who is punished under 0.5050 shall not be eligible to appear for this additional examination.
- It is not right of the learner, who has failed or has remained absent, to appear for the additional examination without fulfilling the norms prescribed by the Head of the institution / Department / Principal of the College / University and that the same has been brought into force with effect from the academic year 2015 - 2016.
- A learner who does not appear for both the Internal Assessment and Semester End Examination shall not be eligible to appear for the additional Semester End Examination.

### Calculations of GPA & SGPA

Students should refer to University website ([www.mu.ac.in](http://www.mu.ac.in)) to get detailed information about GPA and SGPA or they may contact the College Office.

### ALLOWED TO KEEP TERMS (A.T.K.T.)(UG/82 of 2013-2014 Dated 23rd December 2013) R.8654 ATKT rules for M.Sc. Program for Credit Based Semester and Grading System (with effect from 2013-14)

a.	A learner shall be allowed to keep term for Semester II irrespective of number of heads of failure in the Semester I.
b.	A learner shall be allowed to take admission and to keep terms and appear for semester irrespective of number of heads of failure in the semester I and II.
c.	A learner after attending semester III is allowed to go to semester IV.
d.	A learner shall allowed to keep term and allowed to appear for semester IV irrespective of the number of heads of failure in semester I, II and III. However the result of the semester IV shall be kept at abeyance until the learner passes each of the semester I, Semester II, Semester III.
e.	A learner will have to earn a minimum of 96 credits to pass the M.Sc. degree.
f.	Those who fail in any semester will have to clear the same in the examination conducted in the corresponding odd or even semester.



## ADMISSION RULES & PROCEDURE

1. The applicant seeking admission to F.Y. / S.Y. / T.Y. B.A., B.Sc., Courses shall submit their application in the prescribed form duly completed in every respect.

The application for F.Y.B.A. / B.Com. / B.Sc. should accompany :

- a) Statement of Marks of H.S.C. Examination (Original with three attested xerox copies).
  - b) Junior college Leaving Certificate (Original with two attested xerox copies).
  - c) Eligibility Certificate issued by the University of Mumbai in case of the student who has passed H.S.C. Examination of the Board other than of Maharashtra State.
  - d) Caste Certificate xerox copy duly attested in respect of B.C. Candidate.
  - e) An undertaking to fulfill certain conditions with regard to attendance / discipline / scholarship / project work / tutorial etc. in a prescribed form duly signed by the applicant and his / her parent/guardian.
  - f) A passport size recent photograph of applicant duly affixed to the prescribed application form.
2. Admission for Degree College will be given on merit basis. Notices regarding admission will be displayed on the Notice Board and or on the web site. Students & parents are requested to go through it & submit their applications accordingly. The name of the selected applicants shall be notified on the Notice Board. They will pay necessary fees in full immediately, failing which their claim for the admission will not be considered. Students are requested to read the notice carefully. In view of restriction on additional divisions and number of students to be admitted in the college the revised procedure as per the notice will be followed.
  3. All admissions are valid only for one academic year and are required to be renewed by applicant in the prescribed form for every subsequent year of study in the college.
  4. Once a student is admitted to the college he/she shall be liable to pay full fees for the whole term.
  5. 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 no such intimation is received, full fee for the Second Term will have to be paid.



## COLLEGE REGULATIONS

1. Every Student, after taking admission, must take Identity Card. Procedure for obtaining Identity Card will be put up on Notice Board. Identity Card should have student's latest photograph affixed on it and attested by the Principal. All details should be correctly filled on it, and then laminated. Every student should wear Identity Card around his/her neck so that it is visible from the front. No student will be allowed in the college campus without valid Identity Card.
2. Student must appear for all test and examination according to the Schedule and show satisfactory performance as per the rules, failing which their terms may not be granted.
3. Students must attend lectures, practicals, tutorials and seminars according to the Time-Table on all working days of the College. Students must not absent themselves from lectures, practicals, tutorials, seminars and examinations without previous permission of the Principal. Absence without prior permission may lead to loss of term, since, to keep a term a Student has to complete 75% attendance as prescribed by University norms, to the satisfaction of the Principal, the course of study prescribed for the term for the class to which he/she belongs.
4. In case of illness, a student must apply for leave by post as soon as possible with a Doctor's certificate attached to the application and must report himself to the Principal immediately after resuming attendance.
5. In case of Science students the term or terms shall not be deemed as kept and shall not be granted, unless the student produces at the end of term, his laboratory journals, in his Science Departments, and wherever Tutorials are prescribed a certificate each from the respective Head of Department stating that the student has completed the Tutorial Course in the respective subject. Laboratory Journal are to be purchased from the College only.
6. In case of Arts & Commerce students the term or terms shall be deemed as kept and shall not be granted unless the student produces at the end of the term certificate each from the Heads of the respective Department stating that the student has completed the prescribed Tutorial Course.
7. **Student must not possess any bags or material advertising for Private Tuition Classes in College premises.**
8. Conduct of student in the classes as well as on the premises of the college shall be such as will cause no disturbance to fellow - students or to other classes.
9. Student must not loiter in the college premises while the classes are in progress.



10. Smoking is strictly prohibited in the college premises.
11. No society or association shall be formed in the college and no person invited to address a meeting without the Principal's prior permission.
12. No student shall collect any money as contribution for picnic, trip, educational visit to some place, get together, study-notes, charity or any other purpose without prior sanction of Principal.
13. Students are expected to take proper care of college property and to help in keeping the premises neat and clean. Doing damage to the property of the college, i.e., disfiguring walls, doors, fittings or breaking furniture, etc. is a breach of discipline and will be duly punished.
14. A student applying for certificate, testimonials, etc. and those requiring Principal's signature on any kind of document or application should first contact to the Registrar of the College. No papers should be brought by students directly to the Principal for his signature.
15. If for any reason the continuance of a student in the college is in the opinion of the Principal, detrimental to the best interest of the college, the Principal may ask such a student to leave the College without giving reason.
16. Students joining the College are, by the very fact supposed to accept and observe all the Rules and Regulations of the college and to undertake to submit to the normal enforcement of the same, to the satisfaction of the principal whose decision in this regard shall be final.
17. Matters not covered by the existing rules will rest at the absolute discretion of the Principal.
18. Students must obtain receipts for testimonials or certificate etc. submitted to office.
19. Students should not throw plastic bags or any other materials in the college premises.



## REFUND OF TUITION FEES

The candidates who have taken admission in under graduate course may request for refund of fees after applying in writing for cancellation of their admission to the course. The refund of fees as applicable will be made on or before 30th day after the date of cancellation of admission and thereafter. The percentage of fee for the course will refunded to the candidate on cancellation of admission after deducting charges as follows :

Period and Percentage of deduction charges						
	1	2	3	4	5	6
	Prior to Commencement of Academic Terms and Instruction of the course	Upto 20 days after the commencement of the Academic term of the course	From 21st day upto 50 days after the Commencement of the Academic Terms of the Course	From 51st Days upto 80 days after Commencement of Academic Terms of the Course or August 31st whichever is earlier	From September 1st to September 30th	After September 30th
	Rs. 500/- Lump sum.	20% of the total amt. fees	30% of the total amt. fees	50% of the total amt. fees	60% of the total amt. fees	100% of the total amt. fees

## COLLEGE TERMS

### TERM ARRANGEMENT :

- First Term
- Second Term

Subject to changes as per University Circular.

To keep a term a student must complete, to the satisfaction of the Principal, the course of study at the college Prescribed for such terms for the class to which the student belongs .



## LIBRARY

### General Rules :

1. Every student entering the Library Premises should have a valid college identity card. It should be produced.
2. Identity card and Reader's card which are non-transferable.
3. Student must handle books, periodicals, etc. with great care. Any attempt to damage books or periodicals, by defacing or tearing the pages will be treated as serious misconduct and strictly dealt with.
4. The computer Terminal provided for students to search and requisition of books shall be used with almost care. If the original Identity Card or Reader's Ticket is lost, a duplicate will be issued on payment of Rs. 30/- each.
5. A complete silence and strict discipline should be maintained in the library and study room.

## STUDY ROOM RULES

1. A Complete silence and strict discipline be maintained in the library and study room.
2. If any reference is required, student should approach the Librarian.

## HOME ISSUE

1. Every student is expected to read and strictly follow the instructions given on the reverse side of the Reader's Ticket.
2. In case of late return of books students will have to pay fine at the rate of Rs. 1/- per day for the first week and Rs. 21/- per day afterwards. In case of serious default amount of fine may be increased to Rs. 10/- per day.
3. While charging the fine holidays will be counted.
4. Re-issue of the books will depend upon the demand for the same.
5. All cases of disregard of these rules will be reported to the principal for appropriate action.

A good library is the back bone of the higher education The main library has more than 60000 books. Reference section as encyclopedias, hand books, general knowledge book and other reference books. there are departmental librarians to in the subjects likes.

## BOOK BANK

The College Book Bank provides text books to poor and needy students. Students coming from poor families are advised to apply immediately after, they are admitted to the college. Students will have to produce Income Certificate and they will have to appear before the Book Bank Committee for an interview. Every year college distributes Text Books to as many as one thousand students from Degree and Jr. College.

## SCHOLAR'S CARD

To promote excellence, scholar cards are issued to 3 to 5 top students from each class. These cards facilitate the students to borrow an additional book for Home Reading. (2 Books instead of one).



## STUDENTS' COUNCIL

The college has a students' Council with Principal as Chairman. One lecturer nominated by the Principal, as NCC officer, NSS programme officer, Director of Sports, one meritorious student from each class and an outstanding student from each of the following activities NSS, Sports, NCC, cultural activities and two lady students nominated by the Principal. Tenure of the students' council is one academic year. Students contesting the elections will have strictly to abide by rules regarding the conduct of election. Student, eligible as per the rules will only be allowed to contest the elections.

## EXTRA CURRICULAR ACTIVITIES

College organize Talent Search, i.e. competitions amongst our students in various Cultural events like singing, instrumental music, dances, dramatics etc. in the month of July / August. The selected students are given opportunity to represent, our College at various Inter-collegiate competitions, Youth Festivals and also at the Annual Cultural Day Celebrations.

Under University Act 0.229 a student will be awarded ten grace marks per year for two years.

## N. C. C.

The College provides an opportunity to Students to join the N.C. C. College sub-unit is attached to Maharashtra Armoured Squadron N. C. C. Mumbai - 56.

Regular parades are held once in a week on Sunday at Mithibai College ground, Vile Parle (W), Mumbai.

Successful cadets are entitled to an award of grace marks up to maximum of 10 at the University examination.

## N. S. S.

The N.S.S. unit gives the students an opportunity to develop the qualities of leadership and sense of social consciousness in them. Students are directed to different social institutions like blind homes, general hospitals, orphanages etc. or the nearby slum areas to mitigate the sufferings of the person there. Camps are arranged during vacation in the city or in nearby villages.

## COLLEGE GYMKHANA

We believe that sports is vital for the physical and mental development of any individual. The Gymkhana aims at encouraging students to participate in games and sports of their choice thus enhancing their skill in sports and athletics.

The college gymkhana provides facilities to the teams to represent College in various tournaments. Students who violate rules discipline will not be permitted to participate in games & sports. The College Gymkhana Council will consist of elected class representatives as well as nominated students who have shown proficiency in various activities both academic and sports.

## AMENITIES AVAILABLE

**Laboratory :** Physics, Zoology, Botony, Chemistry, Maths, Bio-Technology.

**Library Books & Journals :** List available on request.

**COMPUTER CENTRE, AUDIO VISUAL AIDS**

## ASSOCIATIONS

There are a number of college associations which promote the skills of our students in various curricular and extracurricular activities as an integral part of education.



## COLLEGE EXAMINATIONS

From Academic Year 2011-2012 University of Mumbai has introduced Credit Based Semester and Grading System for UG and PG programmes of Arts, Science and Commerce faculties. Details of Credit Based Semester and Grading System are given on page no. 29. For further details, students may contact to college office and may go through the details available of University website [www.mu.ac.in](http://www.mu.ac.in)

1. Students must attend at least 75 % of lectures, and practical per semester.
2. Students must satisfactorily complete all tutorials, assignments and project-works within the prescribed dates as instructed by respective teachers.
3. Students must appear for periodic tests, midterm examinations and other term works and show satisfactory performance, failing which their terms will be cancelled, and they will not be allowed to appear for the Semester End Examination.
4. In case a student is not able to appear for Test 1 Examinations due to illness, he/she must submit medical certificate within three days of commencement of the Examination. Such cases will be considered as per rules of University of Mumbai.

## EXAMINATIONS CONDUCTED BY THE COLLEGE ON BEHALF OF THE UNIVERSITY

Semester End Exams., Mid Semester Exams., and Practical Examinations for the First Year and the Second Year will be conducted at the College level on behalf of the University as per University Rules which are given in detail on earlier pages.

### FINAL YEAR (UNIVERSITY) DEGREE EXAMINATIONS

Admission to the Third (Final) Year Degree will be granted as per revised rules which are given in earlier pages.

Final Year Result of a candidate will be declared by the University provided the candidate passes in each of the lower semester examination.

Candidate detected using unfair means or found copying at the college / University Examinations may be punished as per University Rules and Maharashtra State Government Act XXXI of XXXI of 1982.

## SCHOLARSHIPS & FREE STUDENTSHIPS

1. The application for following awarded, scholarships, free studentship etc. are forwarded by College. Details regarding these Scholarship etc. are put on the notice board from the time to time.

**Scholarships** : 1) National Merit Scholarship 2) National Loan Scholarship 3) Merit Scholarship to Children of Primary and Secondary Teachers 4) State Government Open Merit Scholarship 5) Talent Development Scholarship to Mathematics and Physics 6) G.O.I. Scholarship to S.C./S.T., D.T./N.T./S.B.C. Students

2. **Free Studentship** : 1) Economically Backward Class Free-Studentship 2) Free-Studentship to Children of Primary and Secondary Teachers 3) Free-Studentship to B.C. student 4) Educational concessions to the children, wives and windows of the Defense Service Personnel.

A student applying for scholarships, free-studentship should note that these are granted on the following conditions.

- a) That the applicant is regular in attendance in accordance with the conditions governing the respective scholarship/free-studentship etc.
- b) That his conduct and progress are satisfactory and
- c) That he is not absent without prior permission.



## STUDENTS AID AND TALENT DEVELOPMENT FUND

Monetary help from the Students Mutual Aid Fund is granted on the application, to the needy and very poor students of the college to meet travelling or other expenses. The procedure for obtaining the aid will put up on the Notice Board.

The College will arrange Career Guidance through Employment Guidance and Career Development Scheme.

## पालकांसाठी व विद्यार्थ्यांसाठी विशेष सूचना

### पदवी महाविद्यालय प्रवेशासंबंधी

पदवी महाविद्यालयातील प्रत्येक वर्गाचे प्रवेश गुणवत्तेनुसार दिले जातात. या महाविद्यालयाच्या कनिष्ठ महाविद्यालयातून उच्च माध्यमिक प्रमाणपत्र परीक्षा उत्तीर्ण होणाऱ्या विद्यार्थ्यांस प्रथम प्राधान्याने प्रवेश देण्यात येईल. परंतू दिलेल्या मुदतीनंतर आलेल्या अशा विद्यार्थ्यांचे प्रवेश अर्ज व फी स्वाकारली जाणार नाही. प्रवेश इच्छूक विद्यार्थ्यांचे प्रवेश अर्ज गुणवत्ता यादीसाठी प्रथम स्विकारले जातात. प्रवेशाची गुणवत्ता यादी जाहीर होताच विद्यार्थ्यांनी फी व मूळ प्रमाणपत्र प्रवेश अर्जासोबत कार्यालयात दिलेल्या मुदतीत जमा करावीत. गुणवत्ता यादीसाठी अर्ज स्वीकारले म्हणजे प्रवेश निश्चित झाला असे विद्यार्थी व पालकांनी गृहीत धरू नये.

मागासवर्गीय विद्यार्थ्यांसाठी शासकीय नियमानुसार जागा राखीव आहेत. सादर विद्यार्थ्यांनी आपले अर्ज गुणवत्ता यादीसाठी मागासवर्गीय विद्यार्थ्यांसाठी असलेल्या प्रवेश कक्षातच सादर करावेत. अन्य ठिकाणी सादर करू नयेत. चुकीच्या कक्षात सादर केलेल्या अर्जाचा विचार केला जाणार नाही. प्रवेशासाठी गुणवत्ता यादी जाहीर होताच दिलेल्या तारखेपर्यंत प्रवेश घ्यावा लागेल. मूळ प्रमाणपत्र व फी भरावी लागेल. मागासवर्गीय उमेदवारांनी जातीचा दाखला सादर करावा.

१. पालकांनी सवडीप्रमाणे महाविद्यालयास भेट देऊन आपल्या पाल्याच्या प्रगतीची चौकशी करावी.
२. प्रत्येक विषयासाठी किमान ७५ टक्के उपस्थिती आवश्यक आहे. विद्यार्थी एका विषयासाठी गैरहजर असल्यास त्याची त्या विशिष्ट दिवसाची गैरहजेरी राहिल.
३. सर्व शाखेच्या विद्यार्थ्यांना विषयनुरूप प्रयोगशाळेतून उपस्थिती अनिवार्य राहिल.
४. असमाधानकारक प्रगती आणि उपस्थिती यासंबंधी विद्यार्थ्यांना सूचनाफलकाद्वारे सूचना दिल्या जातात. पालकांनाही या संबंधी पत्रे पाठविली जातात. पण पत्र मिळाले नाही म्हणून विद्यार्थ्यांची प्रगती समाधानकारक आहे अशी समजूत करून पालकांनी स्वस्थ राहू नये ही विनंती. बऱ्याच वेळा पत्र मिळत नाही त्यासाठी पालकांना दक्ष राहून प्राचार्यांशी संपर्क साधल्यास योग्य होईल, पत्राद्वारे चौकशी केल्यास त्या पत्रांना उत्तरे पाठवली जातील.



५. कला, क्रीडा असा शिक्षणेतर कार्यक्रमांमध्ये सहभागी होण्यासाठी विद्यार्थ्यांना उत्तेजन दिले जाते. महाविद्यालयातील व आंतर महाविद्यालयातील स्पर्धांमध्ये विशेष प्राविण्य संपादन करणाऱ्या विद्यार्थ्यांना प्रमाणपत्र दिली जातात.
६. महाविद्यालयातील प्रवेश रद्द करावयाचा असल्यास त्यासाठी नियमानुसार अर्ज करावा लागतो. या अर्जावर पालकांची सही आवश्यक असते.
७. या माहिती पत्रकातील तसेच प्रवेश अर्जातील महाविद्यालयाच्या व विद्यापीठाच्या नियमांची माहिती पालकांनी करून घ्यावी ही विनंती. **विद्यार्थ्यांस प्रवेश देताना पालकांनी व विद्यार्थ्यांनी माहितीपत्रक व प्रवेश अर्जावरील नियम वाचले आहेत असे गृहीत धरून प्रवेश देण्यात येईल.**
८. महाविद्यालयामध्ये वेळोवेळी होणारे गृहपाठ, चाचण्या संत्रांत परीक्षा व इतर सर्व परिक्षांना विद्यार्थ्यांनी बसणे आवश्यक आहे. विद्यार्थ्यांची प्रगती असमाधानकारक असेल तर अशा विद्यार्थ्यांना विद्यापीठाच्या नियमाप्रमाणे संत्रांत परीक्षेत बसू न देण्याचा निर्णय घेतला जाईल व तो निर्णय विद्यार्थ्यांवर बंधनकारक होईल. या संबंधी विद्यार्थ्यांना पहिल्या सत्राच्या अखेरीस ताकीद दिली जाईल.
९. विद्यार्थी कोणत्याही कारणास्तव गैरहजर राहिल्यास त्यासंबंधी तात्काळ लेखी कळविणे आवश्यक आहे. परीक्षा, गृहपाठ, प्रात्यक्षिके यांना वैद्यकीय कारणावरून अनुपस्थित राहिल्यास वैद्यकीय दाखला योग्य वेळेमध्ये सादर न केल्यास विचार केला जाणार नाही.
१०. समाधानकारक हजेरीबाबत ११९, १२५ या क्रमांकाचे आदेश माहिती पत्रकामध्ये छापले आहेत, विद्यार्थ्यांनी त्याची नोंद घ्यावी व पालकांनीही त्या नियमाची नोंद घ्यावी ही विनंती.
११. अर्थिकदृष्ट्या दुर्बल घटकातील विद्यार्थ्यांना शैक्षणिक सवलत, मागासवर्गीय विद्यार्थ्यांना शिष्यवृत्ती, फी माफी सवलत इत्यादी सवलतीकरीता गरजू विद्यार्थ्यांनी महाविद्यालय सुरु झाल्यावर १५ दिवसांच्या आत अर्ज करावा. उशीरा आलेल्या अर्जांची दखल घेतली जाणार नाही याची नोंद पालक व विद्यार्थ्यांनी घ्यावी. शैक्षणिक सवलतीचे अर्ज सादर न करणाऱ्या विद्यार्थ्यांना महाविद्यालयाची संपूर्ण फी भरावी लागेल, तसेच शैक्षणिक सवलतीचे अर्ज नामंजूर झाल्यास संपूर्ण फी भरावी लागेल, याची सर्व संबंधितांनी नोंद घ्यावी.
१२. विद्यार्थ्यांनी कार्यालयांत सादर केलेल्या कागदपत्रांची (शिक्षण शुल्क सवलत इत्यादी अर्ज व प्रमाणपत्र इत्यादी बाबत) रितसर पोच घ्यावी.
१३. विद्यार्थ्यांनी सदैव महाविद्यालयाचे ओळखपत्र सोबत ठेवावे. सादर ओळखपत्र प्रत्येक विद्यार्थी / विद्यार्थिनीने आपल्या गळ्यात दिसेल असे लावणे बंधनकारक आहे. महाविद्यालयाच्या ओळखपत्राशिवाय महाविद्यालयाच्या आवारात वावरता येणार नाही.



१४. माजी विद्यार्थ्यांना महाविद्यालयाशी संपर्क साधावयाचा असल्यास सोबत आपले जुने ओळखपत्र आणावे.
१५. महाविद्यालयाची शिस्त राखण्यासाठी विद्यार्थ्यांनी सहकार्य करावे.
१६. गरीब व गरजू विद्यार्थ्यांना विद्यार्थी स्टुडंट एड फंडातून मदत दिली जाते अशा विद्यार्थ्यांनी महाविद्यालयाचे रजिस्ट्रार यांच्याशी संपर्क साधावा.
१७. महाविद्यालयाच्या आवारात प्लॅस्टिक पिशव्या अगर इतर टाकाऊ वस्तू टाकू नयेत.
१८. विद्यार्थ्यांनी कचरा पेटीचा वापर करावा.
१९. विद्यार्थ्यांनी महाविद्यालयाच्या मालमत्तेचे जतन करावे.
२०. विद्यार्थ्यांनी / पालकांनी संपूर्ण माहिती पत्रकाचे व नियमांचे वाचन करणे, समजून घेणे आवश्यक आहे.

- प्राचार्य

विद्यार्थी पुढील शिष्यवृत्तीसाठी अर्ज करू शकतात. या संबन्धिची माहिती सूचना फलकावर जाहिर होते. विद्यार्थ्यांनी कार्यालयाशी या संदर्भात २५ ऑगस्टपर्यंत संपर्क साधावा.

१. राष्ट्रीय गुणवत्ता शिष्यवृत्ती
२. राज्य शासनाची खुली गुणवत्ता शिष्यवृत्ती
३. मागासवर्गीय विद्यार्थ्यांसाठी भारत सरकारची मागासवर्गीय शिष्यवृत्ती
४. विद्यार्थी मदत निधी-गरीब विद्यार्थ्यांना विद्यार्थी मदत निधितून आर्थिक मदत दिली जाते.

### - महत्वाची सूचना -

प्रत्येक विद्यार्थी/विद्यार्थिनीस महाविद्यालयाचे दिलेले ओळखपत्र आपल्या गळ्यात दिसेल असे लावणे बंधनकारक आहे. ओळखपत्राशिवाय कोणत्याही विद्यार्थ्यांस/विद्यार्थिनीस महाविद्यालयात व आवारात प्रवेश दिला जाणार नाही, याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.



## PROHIBITION OF RAGGING

### MAHARASHTRA ACT NO XXXIII OF 1999

'RAGGING' means display of disorderly conduct doing of any act which causes or is likely to cause physical or psychological harm or raise apprehension or fear or shame or embarrassment to a student in any educational institution and includes-

i) Teasing, abusing threatening or playing practical jokes on, or causing hurt to, such students;

OR

ii) Asking a student to do any act or perform something which such student will not, in the ordinary course, willingly, do.

Ragging within or outside of any educational institution is prohibited.

#### PENALTY FOR RAGGING :

Whoever directly or indirectly commits, participates in, abets or propagates ragging within or outside any educational institution shall, on conviction, be punished with imprisonment for a term which may extend to two years and shall also be liable to a fine which may extend to ten thousand rupees.

Any student convicted of an offence under section 4 shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.

#### SUSPENSION OF STUDENT :

Whenever any student or, as the case may be, the parent or guardians, or a teacher of an educational institution complains, in writing, of ragging to the head of the educational institution, the head of that educational institution shall, without prejudice to the foregoing provision, within seven days of the receipt of the complaint, enquire into the matter mentioned in the complaint and if, prima facie, it is found true, suspend the students 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, for further action.

Where, on enquiry by the head of the educational institution, it is proved that there is no substance, prima facie, in the complaint received under sub section (1), he shall intimate the fact, in writing, to the complainant.

The decision of the head of the educational institution that the student has indulged in ragging under sub-section (1), shall be final.

### रॅगिंग प्रतिबंध

प्रवेशासाठी येणारा विद्यार्थी याआधी रॅगिंगमध्ये गुंतलेला असेल तर त्याला प्रवेश नाकरण्यात येईल.

प्रवेशानंतर जर तो अशा कृत्यात सहभागी होताना आढळला तर त्याला ताबडतोब

संस्थेतून काढून टाकण्यात येईल.



## DEGREE COLLEGE UN-AIDED COURSES

