

**1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/elective course system has been implemented(10) 2018-2019**

Name of all programs	Whether adopting CBCS course system(yes/no)	Whether adopting elective course system(yes/no)	Programme Code	Year of implementation of CBCS / elective course system	Link of the relevant document
BA (Urdu-History)	Yes	Yes	BART	2016-2017	<a href="http://mu.ac.in/syllabus#1548829931199-d8403820-647e">http://mu.ac.in/syllabus#1548829931199-d8403820-647e</a>
BA (Urdu-Islamic Studies)	Yes	Yes	BART	2016-2017	
BA (Urdu-Sciology)	Yes	Yes	BART	2016-2017	
BA (Urdu-Philosophy)	Yes	Yes	BART	2016-2017	
BA (English-History)	Yes	Yes	BART	2016-2017	
BA (English-Sociology)	Yes	Yes	BART	2016-2017	
BA (English- Philosophy)	Yes	Yes	BART	2016-2017	
BA (English-Islamic Studies)	Yes	Yes	BART	2016-2017	
BA (Sociology-Islamic Studies)	Yes	Yes	BART	2016-2017	
BA (History-Islamic Studies)	Yes	Yes	BART	2016-2017	
BA (Sociology-History)	Yes	Yes	BART	2016-2017	
BA (Sociology-Philosophy)	Yes	Yes	BART	2016-2017	
B.Sc (Physics)	Yes	Yes	BSCI	2016-2017	<a href="http://mu.ac.in/syllabus#1548848029418-4f01e655-210d">http://mu.ac.in/syllabus#1548848029418-4f01e655-210d</a>
B.Sc (Mathematics)	Yes	Yes	BSCI	2017-2018	
B.Sc (Botany)	Yes	Yes	BSCI	2016-2017	
B.Sc (Chemistry)	Yes	Yes	BSCI	2016-2017	
B.Sc (Zoology)	Yes	Yes	BSCI	2016-2017	
B.Sc (Information Technology)	Yes	Yes	BSIT	2016-2017	
B.Sc (Biotechnology)	Yes	Yes	BSCI	2016-2017	
B.Sc (Interdisciplinary Studies)	Yes	Yes	BSCI	2016-2017	
B.Com	Yes	Yes	BCOM	2016-2017	<a href="http://mu.ac.in/syllabus#1548829931222-2e1d42b6-4304">http://mu.ac.in/syllabus#1548829931222-2e1d42b6-4304</a>
BMS	Yes	Yes	BMSG	2016-2017	
MA (English)	Yes	Yes	M.A	2017-2018	
MA (Urdu)	Yes	Yes	M.A	2018-2019	
MA (Sociology)	Yes	Yes	M.A	2016-2017	
MA (History)	Yes	Yes	M.A	2016-2017	
MA (Islamic Studies)	Yes	Yes	M.A	2016-2017	
MA (Phiosophy)	Yes	Yes	M.A	2018-2019	
M.Sc (Physics)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Mathematics)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Botany)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Chemistry)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Zoology)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Information Technology)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Botany)(By Research)	Yes	Yes	M.Sc	2017-2018	
M.Sc (Zoology)(By Research)	Yes	Yes	M.Sc	2017-2018	
M.Com	Yes	Yes	M.Com	2017-2018	

**1.2.2 Details of Programs in which Choice Based Credit System (CBCS)/Elective course system implemented**


<b>Sr. No.</b>	<b>Programme Name</b>	<b>Year of implementation</b>
1.	BA(Urdu- History)	2016-2017
2.	BA(Urdu- Islamic Studies)	2016-2017
3.	BA(Urdu- Sciology)	2016-2017
4.	BA(Urdu- Philosophy)	2016-2017
5.	BA(English-History)	2016-2017
6.	BA(English-Sociology)	2016-2017
7.	BA(English- Philosophy)	2016-2017
8.	BA(English-Islamic)	2016-2017
9.	BA(Socio-Islamic)	2016-2017
10.	BA(History-Islamic)	2016-2017
11.	BA(Socio-History)	2016-2017
12.	BA(History-Philosophy)	2016-2017
13.	BA(Socio-Philosophy)	2016-2017
14.	BA(Islamic studies-Philosophy)	2016-2017
15.	B.Sc(Physics)	2016-2017
16.	B.Sc(Maths)	2017-2018
17.	B.Sc(Botany)	2016-2017
18.	B.Sc(Chemistry)	2016-2017
19.	B.Sc(Zoology)	2016-2017
20.	B.sc(Information Technology)	2016-2017
21.	B.Sc(Biotechnology)	2016-2017
22.	B.Sc(Interdisciplinary)	2016-2017
23.	Bcom	2016-2017
24.	BMS	2016-2017
25.	MA(English)	2017-2018
26.	MA(Urdu)	2018-2019
27.	MA(Sociology)	2016-2017
28.	MA(History)	2016-2017
29.	MA(Islamic Studies)	2016-2017
30.	MA(Phiosophy)	2018-2019
31.	MSc (Physics)	2017-2018
32.	MSc (Maths)	2017-2018
33.	MSc(Botany)	2017-2018
34.	MSc(Chemistry)	2017-2018
35.	MSc(Zoology)	2017-2018
36.	M.Sc(Information Technology)	2017-2018
37.	M.Sc(Botany)(By Research)	2017-2018
38.	M.Sc(Zoology)(By Research)	2017-2018
39.	M.Com	2017-2018

**UNIVERSITY OF MUMBAI**  
No. UG/154 of 2016-17

**CIRCULAR:-**

A reference is invited to the syllabi relating to the B. A. degree course vide degree programme vide this office Circular No.UG/168 of 2011, dated 20<sup>th</sup> June, 2011 and the Head, University Department of Urdu and the Principals of the affiliated Colleges in Arts are hereby informed that the recommendation made by the Board of Studies in Urdu at its meeting held on 2<sup>nd</sup> July, 2016 has been accepted by the Academic Council at its meeting held on 14<sup>th</sup> July, 2016 vide item No. 4.2 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for (Sem. I & II) of F.Y.B.A. degree Programme in the course of Urdu, which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI-400 032  
/6 November, 2016  
To

  
(Dr.M.A.Khan)  
REGISTRAR

The Head, University Department of Urdu and the Principals of the affiliated Colleges in Arts.

A.C/4.2/14/07/2016


\*\*\*\*\*

No. UG/154 -A of 2016

MUMBAI-400 032 /6 November, 2016

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Arts,
- 2) The Chairman, Board of Studies in Urdu,
- 3) The Professor-cum-Director, Institute of Distance and Open Learning,
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

  
(Dr.M.A.Khan)  
REGISTRAR

....PTO

UNIVERSITY OF MUMBAI

REVISED SYLLABUS

FOR

B. A. URDU

Ist YEAR

CREDIT BASED, GRADING & SEMESTER SYSTEM

(FOR THE ACADEMIC YEAR 2016-2017)

# SYLLABUS

## FOR

### E.Y.B.A. URDU: Compulsory

#### Semester I

Credits : 04

No. of Teaching Hrs./per Sem. : 60

Marks : 100

Duration : 3 Hrs

A) **Prescribed Text book** : IRFAN-E-ADAB published by KITAB DAAR, Mumbai.

B) **Essay Writing ( Mazmoon Nawesi ) :**

The topics related to Urdu Language and Literature, Indian Culture, Social problems and Current affairs etc. are to be explained to the students and they should be trained to write essays on them.

#### The pattern of the question paper for Semester I, is as follows :


1. One question on essay-writing be set, having in all five topics related to Urdu Language and Literature, Indian Culture, Social problems and Current affairs etc. The candidate be asked to write an essay on any one of those topics. **Marks. 20**
2. One full length question with one additional question as an alternative, the choice being internal, will be set on any of the two prescribed prose lessons from Hissa Awwal of the Textbook IRFAN-E-ADAB. **Marks. 20**
3. This question will have two parts :  
A : Three passages from the prescribed five prose lessons of the Text book IRFAN-E-ADAB will be given and the candidate will be asked to interpret two of them with reference to context. **Marks. 14**  
B : Five IDIOMS will be given and the candidate will be asked to write the meanings and form proper sentences using three of them of his choice . **Marks. 06**

UNIVERSITY OF MUMBAI  
No. UG/86 of 2016-17

CIRCULAR:-

A reference is invited to the Syllabi relating to the B. A. degree course vide this office Circular No.UG/159 of 2011 dated 20<sup>th</sup> June, 2011 and the Principals of affiliated Colleges in Arts Colleges are hereby informed that the recommendation made by Board of Studies in History & Archaeology at its meeting held on 25<sup>th</sup> May, 2016 has been accepted by the Academic Council at its meeting held on 24<sup>th</sup> June, 2016 vide item No. 4.21 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for the F.Y.B.A. in History & Archaeology (Sem.I & II), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI – 400 032  
October, 2016

  
(Dr.M.A.Khan)  
REGISTRAR

To,

The Principals of affiliated Colleges in Arts.

A.C/4.21/24/06/2016


\*\*\*\*\*

No. UG/ 86 -A of 2016-17

MUMBAI-400 032 25<sup>th</sup> October, 2016

Copy forwarded with compliments for information to:-

- 1) The Dean, Faculty of Arts,
- 2) The Chairman, Board of Studies in History,
- 3) The Director, Board of College and University Development,
- 4) The Controller of Examinations,
- 5) The Co-Ordinator, University Computerization Centre.
- 6) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL)

  
(Dr.M.A.Khan)  
REGISTRAR

PTO...

AC 24 / 06 / 2016

Item no.4.21

# UNIVERSITY OF MUMBAI



**Revised syllabus for Sem I and II**

**Program: B. A.**

**Course: History & Archaeology**

**(Choice Based Credit System with effect from the Academic  
year 2016-17)**

**F.Y.B.A. (History)**

**History of Modern India (1857-1947)**

**Semester - I**

Objectives:-

The course is designed to make the student aware about the making of modern India and the struggle for independence.

**Module I: Growth of Political Awakening**

- (a) Revolt of 1857 – Causes and Consequences
- (b) Contribution of the Provincial Associations
- (c) Foundation of Indian National Congress.

**Module II: Trends in Indian Nationalism**

- (a) Moderates
- (b) Extremists
- (c) Revolutionary Nationalists

**Module III: Gandhian Movements**

- (a) Non Co-operation Movement
- (b) Civil Disobedience Movement
- (c) Quit India Movement

**Module IV: Towards Independence and Partition**

- (a) The Indian Act of 1935
- (b) Attempts to Resolve the Constitutional Deadlock -The Cripps Mission, The Cabinet Mission and the Mountbatten Plan
- (c) Indian Independence Act and Partition



**Semester –II**  
**History of Modern India: Society and Economy.**

**Module I: Socio Religious Reform Movements: Reforms and Revival**

- (a) Brahmo Samaj, Arya Samaj and Ramakrishna Mission
- (b) Satyashodhak Samaj, Aligarh movement and Singh Sabha Movement.
- (c) Impact of Reform Movements

**Module II: Education, Press and Transport**

- (a) Introduction of Western Education and its Impact
- (b) Development of Press
- (c) Transport and Communications

**Module III: Impact of the British Rule on Indian Economy.**

- (a) Revenue Settlements, Commercialisation of Agriculture
- (b) Drain Theory
- (c) Deindustrialisation and Growth of Large Scale Industry

**Module IV: Nationalism and Social Groups: interfaces.**

- (a) Women
- (b) Dalits
- (c) Peasants and Tribals

**UNIVERSITY OF MUMBAI**  
No. UG/49 of 2017-18

**CIRCULAR:-**

A reference is invited to the syllabi relating to the B.A. Programme **vide** this office Circular No.UG/234 of 2016-17, dated 23<sup>rd</sup> January, 2017 and the Principals of the affiliated Colleges in Arts are hereby informed that the recommendation made by the Board of Studies in Persian, Arabic & Islamic Studies at its meeting held on 23<sup>rd</sup> February, 2017 has been accepted by the Academic Council at its meeting held on 11<sup>th</sup> May, 2017 **vide** item 4.97 and that in accordance therewith, the revised syllabus as per the (CBCS) for the F.Y.B.A. Islamic Studies (Ancillary), (Sem. I) which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2017-18.

MUMBAI- 400032  
15<sup>th</sup> July, 2017

  
(Dr. M.A. Khan)  
REGISTRAR

To

The Principals of the affiliated Colleges in Arts.

**A.C/4.97/11/05/2017**

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No. UG/ 49 -A of 2017

MUMBAI-400 032

15<sup>th</sup> July, 2017

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Arts,
- 2) The Offg. Director of Board of Examinations and Evaluation,
- 3) The Chairman, Board of Studies in Persian, Arabic & Islamic culture.
- 4) The Director of Board of Student Development.,
- 5) Professor-cum-Director, Institute of Distance and Open Learning (IDOL).
- 6) The Co-Ordinator, University Computerization Centre,

  
(Dr. M.A. Khan)  
REGISTRAR

...PTO

# UNIVERSITY OF MUMBAI



## Syllabus for the F.Y.B.A.

PROGRAM: B.A.

COURSE: ISLAMIC STUDIES (ANCILLARY)  
(SEMESTER I)

CHOICE BASED CREDIT SYSTEM (CBCS)

WITH EFFECT FROM  
THE ACADEMIC YEAR 2017-2018

**Syllabus in brief:**

**F.Y.B.A.in Arabic (Ancillary)**

**SEMESTER I**

Course Code	Nomenclature	Theory Exam	Hrs per week	Credit
UAISL 201	History of Arabic	100	4	6

**Scheme of Examination:** 100 Marks = End Semester Examination (3 hrs)

**Paper Pattern for Exam:** 5 Questions of 20 Marks (each with internal choice)

(Please refer Question Paper pattern attached at the end of syllabus)

**University OF MUMBAI**

No. UG/335 of 2018

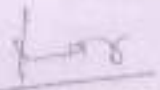
**CIRCULAR:-**

Attention of the Principals of the Affiliated Colleges in Arts Faculties is invited to this office circular No.UG/63 of 1993, dated 12<sup>th</sup> March, 1993 relating to syllabus of Bachelor of Arts. They are hereby informed that the recommendations made by the Board of Studies in Sociology at its meeting held on 19<sup>th</sup> August, 2017 have been accepted by the Academic Council at its meeting held on 11<sup>th</sup> October, 2017 vide item No.4.17 and that in accordance therewith, the revised syllabus as per the (CBCS) for the S.Y.B.A. of Applied Component of Social Work & Social Welfare (Sem. III) and also Sociology of Social Work (Sem. IV), has been brought into force with effect from the academic year 2017-18, accordingly. The same is available on the University's website : [www.mu.ac.in](http://www.mu.ac.in).

MUMBAI - 400 032

6<sup>th</sup> February, 2018

To

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

The Principals of the affiliated Colleges in Arts.

A.C/4.17/11/10/2017

\*\*\*\*\*

No. UG/335 -A of 2018

MUMBAI-400 032 6<sup>th</sup> February, 2018

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Humanities,
- 2) The Director, Board of Examinations and Evaluation,
- 3) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

....PTO

# Applied Component

## S.Y.B.A: Revised Syllabus

**Semester III** INTRODUCTION TO SOCIAL WORK AND SOCIAL WELFARE  
(04 Credits) 100 marks

**Semester IV** SOCIOLOGY OF SOCIAL WORK (04 Credits) 100 marks

## Program : B.A. Course : Sociology

(As per Credit Based Semester and Grading System with effect from the  
academic year 2017–2018)

1

Programme – Bachelor of Arts (B. A.) Credit Based Choice System (CBCS)  
S.Y.B.A. **Social Psychology** Syllabi to be implemented from the Academic year  
2017-2018

Code	Semester	Course Title	Credits	Marks
UAPS301	3	Social Psychology: Part I	3	100
UAPS401	4	Social Psychology: Part II	3	100

Objectives: -

1. To impart knowledge of the basic concepts and modern trends in Social Psychology
2. To foster interest in Social Psychology as a field of study and research
3. To make the students aware of the applications of the various concepts in Social Psychology in the Indian context

**Semester III Social Psychology: Part I**

3 lectures per week

Unit 1: Social Psychology - The Science of the Social Side of Life

- a) Social psychology: an overview; advances at the boundaries
- b) How social psychologists answer the questions they ask: research as the route to increased knowledge; the role of theory in social psychology
- c) The quest for knowledge and rights of individuals: in search of an appropriate balance

Unit 2: Social Cognition – How we think about the social world

- a) Heuristics: how we reduce our effort in social cognition
- b) Schemas: mental frameworks for organizing social information
- c) Automatic and controlled processing: two basic modes of social thought
- d) Potential sources of error in social cognition
- e) Affect and cognition

Unit 3: Social Perception – Perceiving and Understanding Others

- a) Nonverbal communication: the unspoken language of expressions, gazes gestures and scents
- b) Attribution: understanding the causes of others' behaviour
- c) Impression formation and impression management: combining information about others

Unit 4: Attitudes - Evaluating and Responding to the Social World

- a) Attitude formation: how attitudes develop
- b) When and why do attitudes influence behaviour? How do attitudes guide behaviour?
- d) The fine art of persuasion: how attitudes are changed; Resisting persuasion attempts
- f) Cognitive dissonance: what it is and how do we manage it?

**Semester IV Social Psychology: Part II**

3 lectures per week

Unit 1: The Causes, Effects, and Cures of Stereotyping, Prejudice, and Discrimination

- a) How members of different groups perceive inequality
- b) The nature and origins of stereotyping
- c) Prejudice: feelings toward social groups; Discrimination: prejudice in action

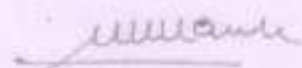
**UNIVERSITY OF MUMBAI**  
No. UG/81 of 2018-19

**CIRCULAR:-**

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office circular No. UG/331 of 2011, dated 1<sup>st</sup> October, 2011 relating to syllabus of Bachelor of Arts.

They are hereby informed that the recommendations made by the Board of Studies in Logic and Philosophy at its meeting held on 21<sup>st</sup> April, 2018 have been accepted by the Academic Council at its meeting held on 14<sup>th</sup> June, 2018 vide item No. 4.9 and that in accordance therewith, the revised syllabus as per the (CBCS) for the F.Y.B.A. in Philosophy – Sem-I and II has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website [www.mu.ac.in](http://www.mu.ac.in)).

MUMBAI – 400 032  
13<sup>th</sup> June, 2018  
To July

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9<sup>th</sup> January, 2018.)

**A.C./4.9/14/06/2018**

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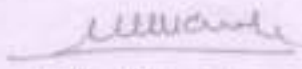
No. UG/81 -A of 2018

MUMBAI-400 032

13<sup>th</sup> June, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Logic and Philosophy,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR



## **FYBA Philosophy (2018-19)**

**Course Title: Moral Philosophy**

**Paper No. 1**

**Credits: 04**

**No. of lectures: 60**

**Marks: 100**

**The overall objectives of the course are as follows:**

1. Familiarize students with significant contributions from the history of moral philosophy
2. Inculcate in students a sense of moral reasoning based on analytical reasoning rather than on dogmatic assertion
3. Provide students with an ethical framework for assessing moral decisions in different areas of life.
4. Encourage students to appreciate the relevance of different moral cultures and outlooks in a globalized world

### **Semester 1 (UAPHI 101)**

#### **Unit 1: Introduction to Moral Philosophy (15 lectures)**

- (a) Definition, nature and scope (branches) of philosophy
- (b) Nature of moral philosophy (facts and values; intrinsic and extrinsic values) and areas of ethics (descriptive ethics, normative ethics, meta-ethics and applied ethics)
- (c) Ethical Relativism: arguments defending this position; critical evaluation.

#### **Unit 2: Moral concepts in Indian Philosophy (15 lectures)**

- (a) Concepts of *Rta*, *Rna*, and *purushartha*
- (b) Philosophy of non-attachment (*nishkama karma yoga*)
- (b) *Sthitaprajna*: the moral ideal

#### **Unit 3: The Good Life: Greek Ethics (15 lectures)**

- (a) Socratic Ethics: virtue is knowledge; can ethics be taught?
- (b) The Four Virtues: Plato (in the context of *Republic*)
- (c) Ethics of Character: Aristotle

#### **Unit 4: Freedom and Determinism (15 lectures)**

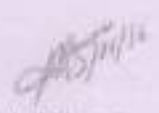
- (a) Determinism: types of determinism: scientific determinism, religious determinism (i.e. predestination) and fatalism; critical appraisal of determinism
- (b) Indeterminism (i.e. libertarianism): arguments in support of free will; agency theory of freedom; critical appraisal of indeterminism
- (c) Compatibilism: reconciling determinism and freedom

**UNIVERSITY OF MUMBAI**  
**No. UG/170 of 2016-17**

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the B. A. degree course vide this office Circular No.UG/237 of 2005 dated 22<sup>nd</sup> June, 2005 and the Principals of affiliated Colleges in Arts are hereby informed that the recommendation made by Board of Studies in English Literature at its meeting held on 29<sup>th</sup> June, 2016 has been accepted by the Academic Council at its meeting held on 14<sup>th</sup> July, 2016 vide item No. 4.54 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for the F.Y.B.A Communication Skills of English (Sem. I & II), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032  
17 November, 2016  
To,

  
(Dr.M.A.Khan)  
REGISTRAR

The Principals of affiliated Colleges in Arts.

**A.C/4.54/14/07/2016**

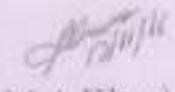
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No. UG/ 170 -A of 2016-17

MUMBAI-400 032 19 November, 2016

Copy forwarded with compliments for information to:-

- 1) The Co-ordinator, Faculty of Arts,
- 2) The Chairperson, Board of Studies in English Literature,
- 3) The Director, Board of College and University Development,
- 4) The Controller of Examinations,
- 5) The Professor-cum-Director, Institute of Distance and Opening Learning,
- 6) The Co-Ordinator, University Computerization Centre.

  
(Dr.M.A.Khan)  
REGISTRAR

PTO...

AC 14-07-2016

Item No. 4.54

# UNIVERSITY OF MUMBAI



**Syllabus for F.Y.B.A**

**Program: B.A.**

**Course: Communication Skills of English (Core Paper)**

**(Choice Based Credit System with effect from the academic year 2016-2017)**

**Course: Communication Skills in English**  
**(100 Marks Examination Pattern)**

(Choice Based Credit System with effect from the academic year 2016-17)

1. Syllabus as per Credit Based Semester and Grading System:

- |       |                                       |                                    |
|-------|---------------------------------------|------------------------------------|
| i)    | Name of the Programme                 | : B.A.                             |
| ii)   | Course Code                           | : UACS101 & UACS201                |
| iii)  | Course Title                          | : Communication Skills in English  |
| iv)   | Semester-wise Course Content          | : Enclosed the copy of syllabus    |
| v)    | References and Additional References: | Enclosed in the Syllabus           |
| vi)   | Credit Structure                      | : No. of Credits per Semester – 02 |
| vii)  | No. of lectures per Unit              | : 09                               |
| viii) | No. of lectures per week              | : 03 lectures + 01 tutorial        |

- |    |  |                                |
|----|--|--------------------------------|
| 2. | Scheme of Examination                    | : 5 Questions of 20 marks each |
| 3. | Special notes, if any                    | : No                           |
| 4. | Eligibility, if any                      | : No                           |
| 5. | Fee Structure                            | : As per University Structure  |
| 6. | Special Ordinances / Resolutions if any: | No                             |

**UNIVERSITY OF MUMBAI**  
**No. UG/163 of 2016-17**

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the B.A. degree course vide this office Circular No.UG/154 of 2011 dated 20<sup>th</sup> June, 2011 and the Principals of the affiliated Colleges in Arts are hereby informed that the recommendation made by Board of Studies in English Literature at its meeting held on 29<sup>th</sup> June, 2016 has been accepted by the Academic Council at its meeting held on 14<sup>th</sup> July, 2016 vide item No.4.52 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for F.Y.B.A. in English (Introduction to Literature) (Sem. I & II), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032  
/6 November, 2016

  
(Dr.M.A.Khan)  
REGISTRAR

To,

The Principals of the affiliated Colleges in Arts.

A.C/4.52/14.07.2016

\*\*\*\*\*

No. UG/163A of 2016

MUMBAI-400 032

/6 November, 2016

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, faculties of Arts .
- 2) The Chairman, Board of Studies in English Literature.
- 3) The Professor-cum-Director, Institute of Distance & Open Learning
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

  
(Dr.M.A.Khan)  
REGISTRAR

...PTO

AC 14-07-2016

Item No. 4.52

UNIVERSITY OF MUMBAI



Syllabus for F.Y.B.A. in English (Optional) Elective

Program : B.A.

Course: Introduction to Literature

(Choice Based Credit System with effect from the academic year 2016-2017)

<b>1. Syllabus as per Choice Based Credit System</b>	
<b>i) Name of the Programme</b>	<b>:B.A.</b>
<b>ii) Course Code</b>	<b>: UAENG 101 AND UAENG 201</b>
<b>iii) Course Title</b>	<b>:FYBA in English (Optional) Elective Introduction to Literature Paper I (Semester I and II)</b>
<b>iv) Semester wise Course Contents</b>	<b>:Enclosed the copy of the syllabus  Semester I - (Short Story &amp; Novel)  Semester II – (Poetry &amp; Drama)</b>
<b>v) References and additional references</b>	<b>:Enclosed in the Syllabus</b>
<b>vi) Credit structure</b>	<b>:No. of Credits per Semester - 03</b>
<b>vii) No. of lectures per Unit</b>	<b>:15</b>
<b>viii) No. of lectures per week</b>	<b>: 04</b>
<b>2 Scheme of Examination</b>	<b>: 5 Questions of 20 marks each</b>
<b>3 Special notes, if any</b>	<b>:No.</b>
<b>4 Eligibility, if any</b>	<b>:No.</b>
<b>5 Fee Structure</b>	<b>:As per University Structure</b>
<b>6 Special Ordinances / Resolutions, if any</b>	<b>: No.</b>

## Syllabus for FYBA English (Optional) Paper (100 Marks Examination Pattern)

### Objectives of the Course:

- To acquaint students with the characteristics of various literary genres
- To develop analytical skills and critical thinking through close reading of literary texts
- To cultivate appreciation of language as an artistic medium and to help them understand the importance of forms, elements and style that shape literary works
- To enable students to understand that literature is an expression of human values within a historical and social context

### Course Outcome: By the end of the course, a student should develop the ability:

- To write clearly, coherently and effectively about various genres of literature
- To recognize the culture and context of the work of literature
- To develop sensitivity to nature and fellow human beings

**Semester One: Introduction to Literature – (Short Stories and Novel) 3Credits**

**Total Lectures: 45**

#### Unit 1: Terms:

**15 Lectures**

**Section A :** Elements of Novel and Short Story : Plot, Character, Setting, Narrative, Theme and Point of View

**Section B :** Types of Novel: Bildungsroman, Picaresque, Epistolary, Stream-of-Consciousness, Novel of Social Reality, Psychological Novel , Historical Novel, Science Fiction, Gothic Novel and Graphic Novel

#### Unit 2: Short Stories:

**15 Lectures**

O'Henry	:	"The Last Leaf"
H.H.Munro	:	"The Open Window"
Oscar Wilde	:	"The Nightingale and the Rose"
Edgar Allan Poe	:	"The Tell-tale Heart"
Katherine Mansfield	:	"The Doll's House"



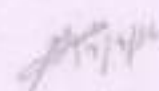
**UNIVERSITY OF MUMBAI**

No. UG/69 of 2016-17

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the B.Sc. degree course, vide this office Circular No. UG/131 of 2011, dated 13<sup>th</sup> June, 2011 and the Principals of affiliated Colleges in Science are hereby informed that the recommendation made by Board Studies in Physics at its meeting held on 24<sup>th</sup> May, 2016 has been accepted by the Academic Council meeting held on 24<sup>th</sup> June, 2016 vide item No. 4.50 and that in accordance therewith, the revised syllabus as per the Credit Based Semester and Grading System for F.Y. B.Sc. Physics (Sem.I & II), which are available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032  
21<sup>st</sup> September, 2016

  
(Dr.M.A.Khan)  
REGISTRAR

To,

The Principals of the affiliated Colleges in Science.

A.C/4.50/24.06.2016

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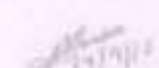
No. UG/69-A of 2016

MUMBAI-400 032

21<sup>st</sup> September, 2016

Copy forwarded with Compliments for information to:-

- 1) The Deans, faculties of Science,
- 2) The Chairman, Board of Studies in Physics,
- 3) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

  
(Dr.M.A.Khan)  
REGISTRAR

PTO.

# UNIVERSITY OF MUMBAI



**Syllabus for Sem I & II**

**Program: B.Sc.**

**Course: Physics**

**(Credit Based Semester and Grading  
System for Academic year 2016-17)**

**Syllabus for B.Sc. Physics (Theory & Practical)**  
**As per credit based system**  
**First Year B.Sc. 2016-2017.**

The revised syllabus in Physics as per credit based system for the First Year B.Sc. Course will be implemented from the academic year 2016-2017.

**Preamble:**

The systematic and planned curricula from these courses shall motivate and encourage learners to understand basic concepts of Physics.

**Objectives:**

- To develop analytical abilities towards real world problems
- To familiarize with current and recent scientific and technological developments
- To enrich knowledge through problem solving, hands on activities, study visits, projects etc.

Course code	Title	Credits
	Semester I	
USPH101	Classical Physics	2
USPH102	Modern Physics	2
USPHP1	Practical I	2
		Total= 06
	Semester II	
USPH201	Mathematical Physics	2
USPH202	Electricity and Electronics	2
USPHP2	Practical II	2
		Total=06

**UNIVERSITY OF MUMBAI**

No. UG/57 of 2018-19

**CIRCULAR:-**

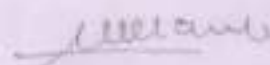
Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities, Sci. & Tech. Faculties is invited to this office Circular No. UG/96 of 2016-17 dated 25<sup>th</sup> October, 2016 relating to syllabus of the B.A./B.Sc. degree course.

They are hereby informed that the recommendations made by the Board of Studies in Mathematics at its meeting held on 3<sup>rd</sup> May, 2018 have been accepted by the Academic Council at its meeting held on 5<sup>th</sup> May, 2018 vide item No. 4.76 and that in accordance therewith, the revised syllabus for the F.Y.B.Sc./F.Y.B.A. in Mathematics (Sem. I & II), has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website [www.mu.ac.in](http://www.mu.ac.in)).

MUMBAI - 400 032

5<sup>th</sup> June, 2018

To July

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Humanities, Sci. & Tech. Faculties, (Circular No. UG/354 of 2017-18 dated 9<sup>th</sup> January, 2018.)

A.C/4.76/05/05/2018

\*\*\*\*\*

No. UG/57 -A of 2018

MUMBAI-400 032

5<sup>th</sup> June, 2018  
July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculties of Humanities, Science & Technology,
- 2) The Chairman, Board of Studies in Mathematics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Professor-cum-Director, Institute of Distance & Open Learning.

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

**UNIVERSITY OF MUMBAI**

**SYLLABUS for the F.Y.B.A/B.Sc.**

**Programme: B.A./B.Sc.**

**Subject: Mathematics**

**Choice Based Credit System (CBCS)  
with effect from the academic year 2018-19**

**F.Y.B.Sc.(CBCS) Semester I****CALCULUS I**

<b>COURSE CODE</b>	<b>UNIT</b>	<b>TOPICS</b>	<b>CREDITS</b>	<b>L/W</b>
USMT101	UNIT I	Real Number System	2	3
	UNIT II	Sequences		
	UNIT III	Limits and Continuity		

**ALGEBRA I**

USMT102	UNIT I	Integers and Divisibility	2	3
	UNIT II	Functions and Equivalence Relation		
	UNIT III	Polynomials		

**PRACTICALS**

USMTP01	UNIT I	Practicals based on USMT101, USMT102	2	2
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**F.Y.B.A.(CBCS) Semester I**

UAMT101	UNIT I	Real Number System	3	3
	UNIT II	Sequences		
	UNIT III	Limits and Continuity		

UNIVERSITY OF MUMBAI

Syllabus

for

S.Y.B.A./S.Y.B.Sc. (CBCS)

Program: B.A/B.Sc.

Course: Mathematics

with effect from the academic year 2017-2018

**S.Y.B.A./S.Y.B.Sc. (CBCS)**  
**Semester III**

CALCULUS III				
Course Code	Unit	Topics	Credits	L/W
USMT301,UAMT301	Unit I	Functions of several variables	2	3
	Unit II	Differentiation		
	Unit III	Applications		
ALGEBRA III				
USMT302, UAMT302	Unit I	Linear transformations and Matrices	2	3
	Unit II	Determinants		
	Unit III	Groups, Subgroups		
INTRODUCTION TO COMPUTING AND PROBLEM SOLVING - I				
USMT303	Unit I	Algorithms	2	3
	Unit II	Graphs & The shortest path algorithm		
	Unit III	Trees & Traversal algorithm		
PRACTICALS				
USMTP03		Practicals based on USMT301,USMT302 and USMT303	3	5
UAMTP03		Practicals based on UAMT301,UAMT302	2	4

**Teaching Pattern**

1. Three lectures per week per course. Each lecture is of 48 minutes duration.
2. One Practical (2L) per week per course (the batches to be formed as prescribed by the University). Each practical session is of 48 minutes duration.



**S.Y.B.A./S.Y.B.Sc. (CBCS)**  
**Semester IV**

CALCULUS IV				
Course Code	Unit	Topics	Credits	L/W
USMT401,UAMT401 USMT401,UAMT401	Unit I	Nested Interval Theorem & Applications	2	3
	Unit II	Riemann integration		
	Unit III	Indefinite and improper Riemann integrals, Double integrals		
ORDINARY DIFFERENTIAL EQUATIONS				
USMT402, UAMT402	Unit I	First order first degree differential equations	2	3
	Unit II	Second order linear differential equations		
	Unit III	Linear system of ODEs		
INTRODUCTION TO COMPUTING AND PROBLEM SOLVING - II				
USMT403	Unit I	Problem solving strategies	2	3
	Unit II	Python programming language		
	Unit III	Iterations, Strings & File Handling in Python		
PRACTICALS				
USMTP04		Practicals based on USMT401,USMT402 and USMT403	3	5
UAMTP04		Practicals based on UAMT401,UAMT402	2	4

**Teaching Pattern**

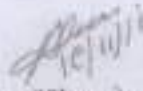
1. Three lectures per week per course. Each lecture is of 48 minutes duration.
2. One Practical (2L) per week per course (the batches to be formed as prescribed by the University). Each practical session is of 48 minutes duration.
3. For the Practicals of USMT403, Python version 2.7.9 shall be used by all colleges.

**UNIVERSITY OF MUMBAI**  
**No. UG/153 of 2016-17**

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the B.Sc. degree course, vide this office Circular No. UG/127 of 2011, dated 13<sup>th</sup> June, 2011 and the Principals of affiliated Colleges in Science are hereby informed that the proposal of the concern Chairperson of Ad-hoc Board of Studies in Botany approved by the Academic Council at its meeting held on 14<sup>th</sup> July, 2016 vide item No. 4.1 and that in accordance therewith, the revised paper pattern as per Choice Based Credit System for New Scheme of Examination (Theory Paper) Pattern of F.Y.B.Sc. (Botany) (Sem. I & II), which are available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032  
/6 November, 2016

  
(Dr. M.A. Khan)  
REGISTRAR

To,

The Principals of the affiliated Colleges in Science.

A.C/4.1/14.07.2016

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No. UG/153A of 2016

MUMBAI-400-032

/Y November, 2016

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculties of Science,
- 2) The Chairman, Board of Studies in Botany,
- 3) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

  
(Dr. M.A. Khan)  
REGISTRAR

PTO.

AC 14/07/2016  
Item No. 4.1

**F.Y.B.Sc. BOTANY**

**Proposed change theory paper pattern F. Y.  
B.Sc. Botany in view of internal assessment  
being scraped by  
Mumbai University.**

**(Choice Based Credit System with effect from the  
Academic year 2016-17)**

Course Code : USBOT101	Semester I	L	Cr
	Plant Diversity I	45	2

<b>UNIT I</b>		<b>15</b>	
<b>MICROBIOLOGY</b>			
1	<b>BACTERIA</b> Size Shape and arrangement; Ultra-structure of bacterial cell; Growth and Reproduction (binary fission, endospore formation, conjugation). Significance of bacteria.		
2	<b>VIRUSES</b> General characters, size and shapes; Ultrastructure; Classification (Plant, animal & bacterial virus); Multiplication of bacteriophage T <sub>4</sub> . Significance of viruses.		
3	<b>FERMENTATION</b> Detailed account of fermentation process of alcohol and acetic acid		
<b>ALGAE</b>			
1	Structure, life cycle and systematic position of <i>Zygnema</i>		
2	Economic Importance of Algae with special reference to Biofertilizers and Food.		

<b>UNIT II FUNGI AND LICHENS</b>		<b>15</b>	
<b>FUNGI</b>			
1	Structure, life cycle and systematic position of <i>Rhizopus</i> and <i>Aspergillus</i>		
2	Modes of nutrition in Fungi: Saprophytism and Parasitism		
3	Economic Importance of Fungi		
<b>LICHENS</b>			
	Classification, Structure, Method of Reproduction, Economic Importance and Ecological Significance of Lichens.		

<b>UNIT III BRYOPHYTA</b>		<b>15</b>	
1	Structure life cycle, systematic position and alternation of generations in <i>Riccia</i>		

Course Code : USBOT102	Semester I	L	Cr
<b>Form and Function 1</b>		<b>45</b>	<b>2</b>

<b>UNIT I</b>		<b>15</b>	
<b><u>PLANT BIOCHEMISTRY AND PHYSIOLOGY</u></b>			
1	<b><u>ENZYMES</u></b> Classification, mode of action, enzyme specification and inhibition		
2	<b><u>WATER PLANT INTERACTION-</u></b> Structure and properties of water, the polarity of water; Water transport processes; Osmosis; Water potential.		
3	<b><u>MINERAL NUTRITION –</u></b> Essential nutrients, deficiencies and plant disorders; Treating nutrient deficiencies; Soil roots and microbes.		

<b>UNIT II</b>		<b>15</b>	
<b><u>CELL BIOLOGY</u></b>			
1	Ultra structure and functions of the cell wall Plasma membrane (bilayer lipid structure, fluid mosaic model)		
2	Ultra structure and functions of the following cell organelles: Mitochondrion and Chloroplast		
3	Ultra structure of the Interphase Nucleus		
4	Ultrastructure of Chromosome		

<b>UNIT III</b>		<b>15</b>	
<b><u>GENETICS</u></b>			
1	<b><u>GENETIC INHERITANCE –</u></b> Mendelian Inheritance: Dominance and Incomplete dominance Gene interaction: Non-epistatic interaction, Epistatic interaction – recessive epistasis, duplicate recessive epistasis, dominant epistasis and duplicate dominant epistasis.		
2	<b><u>SEX DETERMINATION-</u></b> Chromosomal sex determination: Heterogametic male – XX-XY (man, <i>Drosophila</i> , ) XX-XO (Grass-hopper); Heterogametic female – ZW-ZZ (fowl); Genetic Counselling		

**UNIVERSITY OF MUMBAI**  
No. UG/166 of 2016-17

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the B.Sc. degree course, vide this office Circular No. UG/128 of 2011, dated 13<sup>th</sup> June, 2011 and the Principals of affiliated Colleges in Science are hereby informed that the recommendation made by the Ad-hoc Board of Studies in Chemistry at its meeting held on 7<sup>th</sup> July, 2016 has been accepted by the Academic Council meeting held on 14<sup>th</sup> July, 2016 vide item No. 4.12 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for F.Y. B.Sc. programme in Chemistry (Sem. I & II), which are available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032

17 November, 2016

To,

The Principals of the affiliated Colleges in Science.

A.C/4.12/14.07.2016

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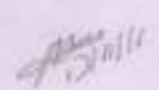
No. UG/166 -A of 2016

MUMBAI-400 032

19 November, 2016

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculties of Science,
- 2) The Chairman, Board of Studies in Chemistry,
- 3) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

  
(Dr.M.A.Khan)  
REGISTRAR

PTO..

AC \_\_\_\_\_

Item No. \_\_\_\_\_

**UNIVERSITY OF MUMBAI****Syllabus for Approval**

Sr. No.	Heading	Particulars
1	Title of Course	Chemistry
2	Eligibility for Admission	12th of all recognised Board
3	Passing marks	
4	Ordinances/Regulations (if any)	
5	No. of Semesters	Two
6	Level	U.G.
7	Pattern	Semester
8	Status	New
9	To be implemented from Academic year	2016-2017

Date:

Signature:

Name of BOS Chairperson: Professor A.V.Karnik

Draft of the proposed syllabus for CBCS

## **F. Y. B. Sc. Chemistry**

For the subject of chemistry there shall be two papers for 45 lectures each comprising of three units of 15 L each.

### **Semester-I**

1. Paper-I / II (General Chemistry) Unit-I will be for Physical Chemistry
2. Paper-I / II Unit-II will be for Inorganic Chemistry and
3. Paper- I / II Unit-III will be for Organic Chemistry.

### **Semester-II**

1. Paper-I /II (General Chemistry) Unit-I will be for Physical Chemistry
2. Paper-I / II Unit-II will be for Inorganic Chemistry and
3. Paper-I / II Unit-III will be for Organic Chemistry.



**UNIVERSITY OF MUMBAI**

No. UG/34 of 2018-19

**CIRCULAR:-**

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular No. UG/02 of 2016-17, dated 21<sup>st</sup> April, 2016 relating to syllabus of the Bachelor of Science (B.Sc.) degree course.

They are hereby informed that the recommendations made by the Board of Studies in Zoology at its meeting held on 9<sup>th</sup> April, 2018 have been accepted by the Academic Council at its meeting held on 5<sup>th</sup> May, 2018 vide item No. 4.31 and that in accordance therewith, the revised syllabus as per the (CBCS) for the S.Y.B.Sc. in Zoology (Sem - III & IV) has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website [www.mu.ac.in](http://www.mu.ac.in)).

MUMBAI-400 032

22<sup>nd</sup> June, 2018

To



(Dr. Dinesh Kamble)

I/c REGISTRAR

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9<sup>th</sup> January, 2018.)

A.C/4.31/05/05/2018

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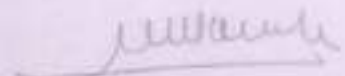
No. UG/34 -A of 2018

MUMBAI-400 032

22<sup>nd</sup> June, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Board of Studies in Zoology,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,



(Dr. Dinesh Kamble)

I/c REGISTRAR

AC- 05/05/2018

Item No. 4.31

**UNIVERSITY OF MUMBAI**



**Program: S.Y.B. Sc.**

**Course: Zoology**

**Syllabus for Semester III & IV**

**(Choice Based Credit System with effect  
from the academic year 2018-2019)**

**UNIVERSITY OF MUMBAI**

No. UG/8 of 2018-19

**CIRCULAR:-**

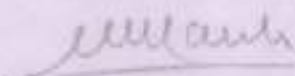
Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular Nos. UG/264 of 2017-18, dated 23<sup>rd</sup> October, 2017, UG/287 of 2017-18, dated 30<sup>th</sup> October, 2017 and UG/263 of 2017-18, dated 23<sup>rd</sup> October, 2017 relating to syllabus of the Bachelor of Science (B.Sc.) degree course.

They are hereby informed that the recommendations made by the Board of Studies in Physics at its meeting held on 23<sup>rd</sup> April, 2018 have been accepted by the Academic Council at its meeting held on 5<sup>th</sup> May, 2018 vide item No. 4.26 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.Sc. in Physics including Applied Component - Electronic Instrumentation (EI) & Computer Course (CS) (Sem -V & VI), has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website [www.mu.ac.in](http://www.mu.ac.in)).

MUMBAI - 400 032

12<sup>th</sup> June, 2018

To



(Dr. Dinesh Kamble)

I/c REGISTRAR

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9<sup>th</sup> January, 2018.)

A.C/4.26/05/05/2018

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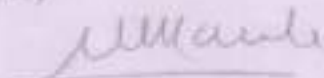
No. UG/ 8 -A of 2018

MUMBAI-400 032

12<sup>th</sup> June, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Board of Studies in Physics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,



(Dr. Dinesh Kamble)

I/c REGISTRAR

**UNIVERSITY OF MUMBAI**



**Syllabus for Sem V & VI Program: B.Sc.**

**Course: Electronic Instrumentation**

**(Applied Component)**

(Credit Based Semester and Grading System with  
effect from the academic year 2018 -2019)

**SEMESTER V****Theory**

<b>USACEI501</b>	<b>Analog Circuits, Instruments and Consumer Appliances.</b>	<b>No. of Credits</b>	<b>Lectures/Week</b>
Unit I	Transducers, Sensors and Optoelectronics Devices	02	04
Unit II	Signal conditioning, SMPS and Measuring Instruments		
Unit III	Data Acquisition and Conversion		
Unit IV	Modern Techniques and Consumer Appliances		

**Practicals**

<b>USACEI5P1</b>	<b>Analog Circuits, Instruments and Consumer Appliances.</b>	02	04
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**SEMESTER VI****Theory**

<b>USACEI601</b>	<b>Digital Electronics, Microprocessor, Microcontroller and OOP.</b>	<b>No. of Credits</b>	<b>Lectures/Week</b>
Unit I	Digital Electronics.	02	04
Unit II	Advanced 8085 Programming and 8255 (PPI) interfacing.		
Unit III	Introduction to Microcontrollers.		
Unit IV	Basic Concepts of Object Oriented Programming and C++.		

**Practicals**


<b>USACEI6P1</b>	<b>Digital Electronics, Microprocessor, Microcontroller and OOP.</b>	02	04
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**UNIVERSITY OF MUMBAI**  
No. UG/176 of 2016-17

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the B.Sc. degree course, vide this office Circular No. UG/177 of 2011, dated 20<sup>th</sup> June, 2011 and the Principals of affiliated Colleges in Arts, Science and Commerce are hereby informed that the recommendation made by the Ad-hoc Board of Studies in Information Technology at its meeting held on 4<sup>th</sup> July, 2016 has been accepted by the Academic Council at its meeting held on 14<sup>th</sup> July, 2016 vide item No. 4.76 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for F.Y. B.Sc. programme in Information Technology (Sem. I & II), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032  
22 November, 2016

  
(Dr. M.A. Khan)  
REGISTRAR

To,

The Principals of the affiliated Colleges in Arts, Science and Commerce.

A.C/4.76/14.07.2016

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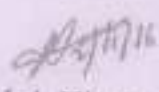
No. UG/176-A of 2016

MUMBAI-400 032

22 November, 2016

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Chairman, Board of Studies in Information Technology,
- 3) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

  
(Dr. M.A. Khan)  
REGISTRAR

PTO..

Academic Council 14/07/2016

Item No: 4.76

**UNIVERSITY OF MUMBAI**



**Syllabus for F.Y.B.Sc.**

**Programme: B.Sc.**

**Course: Information Technology**

with effect from the academic year

**2016 – 2017**

**Semester – 1**

<b>Course Code</b>	<b>Course Type</b>	<b>Course Title</b>	<b>Credits</b>
USIT101	Core Subject	Imperative Programming	2
USIT102	Core Subject	Digital Electronics	2
USIT103	Core Subject	Operating Systems	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>

**Semester – 2**

<b>Course Code</b>	<b>Course Type</b>	<b>Course Title</b>	<b>Credits</b>
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 and Statistical Methods Practical	2
USIT2P5	Ability Enhancement Skill Course Practical	Green Computing Practical	2
<b>Total Credits</b>			<b>20</b>



Academic Council/07/2016

Item No: 4.51

**UNIVERSITY OF MUMBAI**



**Syllabus for F.Y.B.Sc.**

**(Restructured)**

**Programme : B.Sc.**

**Course: Biotechnology**

with effect from the academic year

**2016 – 2017**

### Semester – I

Course Code	Course Type	Course Title	Credits	Lectures/Week
USBT101	Core Subject	Basic Chemistry-I	2	3
USBT102	Core Subject	Basic Chemistry-II	2	3
USBT103	Core Subject	Basic Life Sciences-I : Biodiversity and Cell Biology	2	3
USBT104	Core Subject	Basic Life Sciences-II : Microbial Techniques	2	3
USBT105	Core Subject	Basic Biotechnology-I : Introduction to Biotechnology	2	3
USBT106	Core Subject	Basic Biotechnology-II : Molecular Biology	2	3
USBT107	Ability Enhancement Course 1 (FC I)	Societal Awareness	2	3
USBTP101, USBTP102, USBTP103	Core Subject Practicals	Practicals of USBT101, USBT102, USBT103, USBT104, USBT105 and USBT106	6	18

### Semester – II

Course Code	Course Type	Course Title	Credits	Lectures/Week
USBT201	Core Subject	Chemistry-I : Bioorganic Chemistry	2	3
USBT202	Core Subject	Chemistry-II : Physical Chemistry	2	3
USBT203	Core Subject	Life Sciences-I : Physiology and Ecology	2	3
USBT204	Core Subject	Life Sciences-II : Genetics	2	3
USBT205	Core Subject	Biotechnology-I : Tissue Culture & Scientific Writing and Communication Skills	2	3
USBT206	Core Subject	Biotechnology-II : Enzymology, Immunology and Biostatistics	2	3
USBT207	Ability Enhancement Course 2 (FC II)	Globalization, Ecology and Sustainable Development	2	3
USBTP201, USBTP202, USBTP203	Core Subject Practicals	Practicals of USBT201, USBT202, USBT203, USBT204, USBT205 and USBT206	6	18

2

**UNIVERSITY OF MUMBAI**

No. UG/212 of 2017-18

**CIRCULAR:-**

A reference is invited to the syllabi relating to the Bachelor of Science (B.Sc.) Programme vide this office Circular No.UG/132 of 2009, dated 4<sup>th</sup> May, 2009 and the Principals of the affiliated Colleges in Science are hereby informed that the recommendation made by Board of Studies in Biotechnology at its meeting held on 7<sup>th</sup> January, 2017 has been accepted by the Academic Council at its meeting held on 11<sup>th</sup> May, 2017 vide item No.4.234 and that in accordance therewith, the revised syllabus as per the (CBCS) of S.Y.B.Sc. Biotechnology (Sem -III & IV), which is available on the University's website ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2017-18, accordingly.

MUMBAI - 400 032  
22<sup>nd</sup> August, 2017  
To

  
(Dr. M.A. Khan)  
REGISTRAR

The Principals of the affiliated Colleges in Science.

A.C/4.234/11/05/2017

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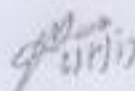
No. UG/212 -A of 2017

MUMBAI-400 032

22<sup>nd</sup> August, 2017

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Chairman, Board of Studies in Biotechnology,
- 3) The Offg. Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,

  
(Dr. M.A. Khan)  
REGISTRAR

....PTO

Academic Council: 2/2017

Item No:

UNIVERSITY OF MUMBAI



Syllabus for S.Y.B.Sc.

(Restructured)

Programme: B.Sc.

Course: Biotechnology

with effect from the Academic Year

2017 – 2018

**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 Practicals	Practicals of USBT_301 and USBT_302	2	6
USBTP302	Core Subject Practicals	Practicals of USBT_303 and USBT_304	2	6
USBTP303	Core Subject and Skill Enhancement Elective Practicals	Practicals of USBT_305 and USBT_306	2	6

**SEMESTER-IV**

Course code	Course type	Course Title	Credits	Lectures/ Week
USBT401	Core Subject	Biochemistry	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 Practicals	Practicals of USBT_401 and USBT_402	2	6
USBTP402	Core Subject Practicals	Practicals of USBT_403 and USBT_404	2	6
USBTP403	Core Subject and Skill Enhancement Elective Practicals	Practicals of USBT_405 and USBT_406	2	6

AC 7-4-2014  
Item No. – 4.45

# UNIVERSITY OF MUMBAI



## Syllabus for the

**Program: B.Sc. Interdisciplinary Science**

**Course : Principles of Marketing**

**(Credit Based Semester and Grading System with effect from the academic year 2014–2015)**

## Course: Principles of Marketing

### Syllabus

For Credit Based Semester and Grading System  
To be implemented form the Academic year 2014-2015

#### MODULE I

Course Code	Unit	Topics	Credits	L/Week
USIDPM01	I	Introduction	3	1
	II	Pricing		1
	III	Distribution		1

#### MODULE II

Course Code	Unit	Topics	Credits	L/Week
USIDPM02	I	Sales forecasting	3	1
	II	Sales promotion		1
	III	Advertising		1

# UNIVERSITY OF MUMBAI



## Syllabus for the

**Program:** **B.Sc. Interdisciplinary Science**

**Course :** **Soft Skills and Personality  
Development**

**(Credit Based Semester and Grading System with  
effect from the academic year 2014–2015)**



## **Course: Soft Skills and Personality Development**

### **Syllabus**

**For Credit Based Semester and Grading System  
To be implemented from the Academic year 2014-2015**

#### **MODULE I**

<b>Course Code</b>	<b>Unit</b>	<b>Topics</b>	<b>Credits</b>	<b>L/Week</b>
<b>USIDSSPD 01</b>	<b>I</b>		<b>3</b>	<b>1</b>
	<b>II</b>			<b>1</b>
	<b>III</b>			<b>1</b>

#### **MODULE II**

<b>Course Code</b>	<b>Unit</b>	<b>Topics</b>	<b>Credits</b>	<b>L/Week</b>
<b>USIDSSPD02</b>	<b>I</b>		<b>3</b>	<b>1</b>
	<b>II</b>			<b>1</b>
	<b>III</b>			<b>1</b>

# UNIVERSITY OF MUMBAI



Syllabus for the

**Program:** **B.Sc. Interdisciplinary Science**

**Course:** **Business Organization &  
Principles of Management**

(Credit Based Semester and Grading System with  
effect from the academic year 2014–2015)

## Course: Business Organization & Principles of Management

### Syllabus

For Credit Based Semester and Grading System  
To be implemented form the Academic year 2014-2015

#### MODULE I

Course Code	Unit	Topics	Credits	L/Week
USIDBOM 01	I	Forms of Business	3	1
	II	Business services		1
	III	Emerging modes of Business		1

#### MODULE II

Course Code	Unit	Topics	Credits	L/Week
USIDBOM02	I	Social Responsibilities of business and business ethics.	3	1
	II	Principles of Management		1
	III	Entrepreneurship Development		1

# UNIVERSITY OF MUMBAI



## Syllabus for the

**Program:** **B.Sc. Interdisciplinary Science**

**Course :** **Elements of Accounts**

(Credit Based Semester and Grading System with  
effect from the academic year 2014–2015)

## Course: Elements of Accounts

### Syllabus

For Credit Based Semester and Grading System  
To be implemented from the Academic year 2014-2015

#### MODULE I

Course Code	Unit	Topics	Credits	L/Week
USIDEA01	I	Introduction of Book-keeping and Accountancy	3	1
	II	Basic Accounting Terminologies		1
	III	Accounting Concepts, Conventions and Principles and Indian Accounting standards concepts and objectives		1

#### MODULE II

Course Code	Unit	Topics	Credits	L/Week
USIDEA02	I	Meaning and fundamentals of Double Entry Book-keeping	3	1
	II	Source documents required for Accounting		1
	III	Bank Reconciliation Statement,		1

## SYLLABUS MODULE I

Course Code	Credits
<b>USIDEA01</b>	<b>3 Credits (45 Lectures)</b>
<b>Unit I: Introduction of Book-keeping and Accountancy</b> A.1 Meaning and definition A.2 Objectives A.3 Importance and Utility A.4 Difference between Book-Keeping and Accountancy A.5 Basis of Accounting - Cash basis and Accrual basis. A.6 Qualitative characteristics of accounting information A.7 Financial Accounting, Cost Accounting, Management Accounting	<b>15 Lectures</b>
<b>Unit II: Basic Accounting Terminologies</b> B.1 Business Transactions – Cash Transactions and Credit Transactions B.2 Goods B.3 Profit, loss-Operating and Nonoperating profits, Normal gains and abnormal gains with examples. Difference between profit and Income B.4 Assets, Liabilities, Net-worth/ Owners Equity Assets: Fixed/ Current/Tangible/ Intangible/ fictitious B.5 Contingent Liability B.6 Capital, Drawings B.7 Debtors, Creditors B.8 Capital Expenditure, Revenue and Deferred Revenue Expenditure	<b>15 Lectures</b>
<b>Unit III : Accounting Concepts, Conventions and Principles and Indian Accounting standards concepts and objectives</b> C.1 Meaning and Importance C.2 Business Entity C.3 Money measurement C.4 Cost C. 5 Consistency C. 6 Conservatism C. 7 Going Concern C. 8 Realization C. 9 Accrual C.10 Dual Aspect C.11 Disclosure C.12 Materiality C.13 Revenue C.14 Matching C.15 Accounting Standards	<b>15 Lectures</b>

## SYLLABUS MODULE II

Course Code	Credits
<b>USIDEA02</b>	<b>3 Credits (45 Lectures)</b>
<p><b>Unit I : Meaning and fundamentals of Double Entry Book-keeping System</b>            Study of Double Entry Book-keeping system.            Advantages of Double Entry Bookkeeping system.            Comparison of Double Entry Bookkeeping system with Conventional Accounting system.</p> <p><b>Classification of Accounts and Accounting equations Rules</b>            Types of accounts-personal, Impersonal-accounts- Real accounts, Nominal accounts.            Rules for different accounts for passing entries.            Illustrations            Accounting equations Assets, Liabilities, Revenue and capital expenses            Brief: Explanation about IFRS</p>	<b>15 Lectures</b>
<p><b>Unit II : Source documents required for Accounting</b>            Meaning, contents and specimen. Voucher-internal, external voucher Petty cash and cash voucher Cash and Credit memo Receipt Debit and Credit note Pay-in-slip Withdrawal slip            Cheque-Bearer, Order, Crossed, Account payee Bank pass book, Bank Statement and Bank advice</p> <p><b>Journal:</b> Meaning, Importance and utility of Journal. Specimen of Journal Writing of Journal entries</p> <p><b>Subsidiary Books :</b> Meaning, need and specimen of different Subsidiary Books. Simple Cash Book with cash column only Cash Book with cash and bank Columns Analytical Petty Cash Book-imprest system. Purchase Book Sales Book Purchase Return Book Sales Return Book</p>	<b>15 Lectures</b>
<p><b>Unit III : Bank Reconciliation Statement :</b> Meaning, need and importance Reasons for difference in bank balance as per cash book and balance as per bank pass book            Specimen of Bank Reconciliation Statement Preparation of Bank Reconciliation Statement</p> <p><b>Trial balance</b>            Meaning and Purpose Specimen of Trial Balance Preparation of Trial Balance from given balances of accounts.</p> <p><b>Errors and their rectification :</b> Meaning and effects of errors. Types of errors - Errors of principles, Errors of Ommission, Errors of commission and Compensating Errors.            Steps to locate errors Errors affecting and not affecting Trial Balance Treatment of balance of suspense account Rectification entries</p>	<b>15 Lectures</b>

# University of Mumbai



**Revised Syllabus  
and  
Question Paper Pattern  
of Courses of  
B.Com. Programme  
First Year  
*Semester I and II***

**Under Choice Based Credit, Grading  
and Semester System**

***(To be implemented from Academic Year- 2016-2017)***

***Faculty of Commerce***



**B.Com. Programme**  
*Under Choice Based Credit, Grading and Semester System*  
**Course Structure**

**F.Y.B.Com.**

*(To be implemented from Academic Year- 2016-2017)*

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 Courses (EC)</b>	
<b>1A</b>	<b>Discipline Specific Elective(DSE)Courses</b>		<b>1A</b>	<b>Discipline Specific Elective(DSE)Courses</b>	
1	Accountancy and Financial Management I	03	1	Accountancy and Financial Management II	03
<b>1B</b>	<b>Discipline Related Elective(DRE)Courses</b>		<b>1B</b>	<b>Discipline Related Elective(DRE)Courses</b>	
2	Commerce I	03	2	Commerce II	03
3	Business Economics I	03	3	Business Economics II	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
5	Environmental Studies I	03	5	Environmental Studies II	03
<b>2B</b>	<b>*Skill Enhancement Courses (SEC)</b>		<b>2B</b>	<b>**Skill Enhancement Courses (SEC)</b>	
6	Any one course from the following list of the courses	02	6	Any one course from the following list of the courses	02
<b>3</b>	<b>Core Courses (CC)</b>		<b>3</b>	<b>Core Courses (CC)</b>	
7	Mathematical and Statistical Techniques I	03	7	Mathematical and Statistical Techniques II	03
<b>Total Credits</b>		<b>20</b>	<b>Total Credits</b>		<b>20</b>

<b>*List of Skill Enhancement Courses (SEC) for Semester I (Any One)</b>		<b>**List of Skill Enhancement Courses (SEC) for Semester II (Any One)</b>	
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

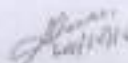
**Note: Course selected in Semester I will continue in Semester II**

**UNIVERSITY OF MUMBAI**  
No. UG/103 of 2016-17

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the Bachelor of Management Studies (B.M.S) degree programme vide this office Circular No. UG/144 of 2011 dated 14<sup>th</sup> June, 2011 the Principals of affiliated Colleges in Commerce are hereby informed that the approved by the Academic Council at its meeting held on 24<sup>th</sup> June, 2016 vide Item No. 4.80 and that in accordance therewith, the revised syllabus as per Choice Based Credit System for (B.M.S) Program – Course Structure (Sem. I to VI), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI – 400 032  
October, 2016

  
(Dr.M.A. Khan)  
REGISTRAR

To,

The Principals of affiliated Colleges in Commerce and the Heads of recognized Institutions concerned.

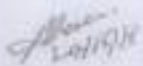
A.C/4.80 /24/06/2016

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No. UG/103-A of 2016-17      MUMBAI-400 032      25 October, 2016

Copy forwarded with compliments for information to:-

- 1) The Dean, Faculty of Commerce,
- 2) The Director, Board of College and University Development
- 3) The Controller of Examinations,
- 4) The Professor-cum- Director, Institute of Distance and Open Learning (IDOL),
- 5) The Co-Ordinator, University Computerization Centre.

  
(Dr.M.A. Khan)  
REGISTRAR

PTO.

# University of Mumbai



**Bachelor of Management Studies  
(BMS) Programme  
Three Year Integrated Programme-  
Six Semesters  
*Course Structure***

**Under Choice Based Credit System**

**To be implemented from Academic Year- 2016-2017  
Progressively**

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

# Bachelor of Management Studies (BMS) Programme

## Under Choice Based Credit, Grading and Semester System

### Course Structure

#### FYBMS

(To be implemented from Academic Year- 2016-2017)

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 Courses (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 Course (AECC)</b>		<b>2A</b>	<b>Ability Enhancement Compulsory Course (AECC)</b>	
4	Business Communication - I	03	4	Business Communication -II	03
<b>2B</b>	<b>*Skill Enhancement Courses (SEC)</b>		<b>2B</b>	<b>**Skill Enhancement Courses (SEC)</b>	
5	Any one course from the following list of courses	02	5	Any one course from the following list of the 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>

<b>*List of Skill Enhancement Courses (SEC) for Semester I (Any One)</b>		<b>**List of Skill Enhancement Courses (SEC) for Semester II (Any One)</b>	
1	Foundation Course - I	1	Foundation Course - Value Education and Soft Skill - 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**

## SYBMS

(To be 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 Courses (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>	
3	Information Technology in Business Management - I	02	3	Information Technology in Business Management-II	02
3	<b>Core Courses (CC)</b>		3	<b>Core Courses (CC)</b>	
4	Environmental Management	03	4	Business Economics-II	03
5	Business Planning & Entrepreneurial Management	03	5	Business Research Methods	03
6	Accounting for Managerial Decisions	03	6	Ethics & Governance	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>

<b>*List of group of Elective Courses(EC) for Semester III (Any two)</b>		<b>** List of group of Elective Courses(EC) for Semester IV (Any two)</b>	
<b>Group A: Finance Electives (Any Two Courses)</b>			
1	Basics of Financial Services	1	Financial Institutions & Markets
2	Introduction to Cost Accounting	2	Auditing
3	Equity & Debt Market	3	Strategic Cost Management
4	Corporate Finance	4	Behavioural Finance
<b>Group B: Marketing Electives (Any Two Courses)</b>			
1	Consumer Behaviour	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
<b>Note: Group selected in Semester III will continue in Semester IV</b>			

## TYBMS

(To be 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 Courses (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>✓ Project Work</b>		3	<b>✓ Project Work</b>	
6	Project Work I	04	6	Project Work II	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

<b>*List of group of Elective Courses(EC) for Semester V (Any four)</b>		<b>** List of group of Elective Courses(EC) for Semester VI (Any four)</b>	
<b>Group A: Finance Electives (Any four Courses)</b>			
1	Investment Analysis & Portfolio Management	1	International Finance
2	Commodity & Derivatives Market	2	Innovative Financial Services
3	Wealth Management	3	Project Management
4	Strategic Financial Management	4	Risk Management in Banking Sector
5	Risk Management	5	Direct Taxes
6	Financing Rural Development	6	Indirect Taxes
<b>Group B: Marketing Electives (Any four Courses)</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	Corporate Communication & Public Relations
6	Strategic Marketing Management	6	Marketing of Non Profit Organisation
<b>Group C: Human Resource Electives (Any four Courses)</b>			
1	Finance for HR Professionals & 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

**Note:** Group selected in Semester III will continue in Semester V & Semester VI

**University of Mumbai**  
**Syllabus for M. A. English Program: Part II**  
**Semester III & IV**

**(Choice Based Credit System)**

**Syllabus for M.A. Semester III and IV as per Choice Based Credit System with effect from the Academic Year 2017-18:**

**Course Structure:**

**1.1 Credits:** A course that is taught for 4 hours a week for a period of 15 weeks will carry six credits.

**1.2. Course credits:** To qualify in a given course, a student will have to acquire six credits in the course. Out of these, four credits are central teaching component and two credits are for the self-study component. The self-study component will consist of academic tasks outside the classroom that will be assigned by the teacher from time to time. The self-study component assigned in this manner will be related to or an extension of but not in lieu of the prescribed syllabus. The self-study component will be given a weightage of 33% in the evaluation of the student. In case of courses with practical component/ field-work components, four credits are for theory course and two credits shall be practical component/field-work component (regulation 5.1 to 5.9).

**1.3. M. A. Programme:** A student who acquires a minimum of 100 credits over four semesters will be declared eligible for the award of the M.A. degree.

**1.4. Courses:** There shall be five types of courses: (i) Core Course; (ii) Elective Course; (iii) Interdisciplinary/Cross-disciplinary Courses; (iv) Audit Courses; (v) Project-based Courses; (vi) Ability Enhancement Courses

(i) **Core Course:** Core courses are courses that impart instruction in the basic, non-specialized aspects of a discipline that constitute the minimum basic competency in that discipline, regardless of any specialization that the learner might choose in the future. Core-Courses shall be offered by the parent department. Core courses shall be for six credits. Minimum 50% courses of the MA programme over four semesters must be core courses.

(ii) **Elective Courses:** Elective courses shall be courses offered by the parent department that impart instructions in specialized/advanced/supportive aspects of the relevant discipline. Each department shall offer a pool of such courses from which a student can choose. Elective Courses shall be for six credits. The syllabus for each elective course will have a preamble clearly stating the course and the learner objectives for the elective, along with the pre-requisites if any and a detailed list of references.

(iii) **Interdisciplinary/Cross Disciplinary Courses (I/C courses):** I/C courses shall be offered by parent department and departments other than parent department. One 'course basket' shall be created for the same. Each MA program has to offer a minimum of two courses and maximum of four courses in the basket. Every I/C course shall be for six credits. A student may opt for an I/C course offered by his/her parent department.

(iv) **Audit Courses:** Students can audit a course from the parent department as well as from other departments in addition to the core, elective and I/C courses that are mandatory, with the prior permission of the head/s of the relevant department/s. Such a student will have to apply in writing at most a week after the relevant course has commenced. For the audit course, a student shall attend lectures of the audited course. The student cannot appear for the semester-end examination for the audited course. However, the student shall appear for the



**UNIVERSITY OF MUMBAI**

No. UG/29 of 2018-19

**CIRCULAR:-**

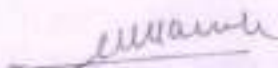
Attention of the Principals of the Affiliated Colleges, the Head University Departments and Directors of the recognized institutions in Humanities Faculty is invited to this office circular No. UG/72 of 2017-18, dated 18<sup>th</sup> July, 2017 relating to syllabus of Master of Arts.

They are hereby informed that the recommendations made by the Board of Studies in Urdu at its meeting held on 12<sup>th</sup> April, 2018 have been accepted by the Academic Council at its meeting held on 5<sup>th</sup> May, 2018 **vide** item No. 4.8 and that in accordance therewith, the revised syllabus as per the (CBCS) for the M.A. in Urdu Sem. I to IV has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website [www.mu.ac.in](http://www.mu.ac.in)).

MUMBAI-400 032

22<sup>nd</sup> June, 2018

To

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

The Principals of the affiliated Colleges, the Head University Departments and Directors of the recognized Institutions in Humanities Faculty, (Circular No. UG/334 of 2017-18 dated 9<sup>th</sup> January, 2018.)

**A.C/4.8/05/05/2018**

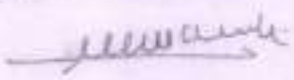
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No. UG/29 -A of 2018

MUMBAI-400 032 22<sup>nd</sup> June, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Urdu,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

AC \_\_\_\_\_

Item No. \_\_\_\_\_

**UNIVERSITY OF MUMBAI**  
**DEPARTMENT OF URDU**



**Syllabus for Approval**

Sr. No.	Heading	Particulars
1	<b>Title of the Course</b>	<b>M. A in Urdu</b>
2	<b>Eligibility for Admission</b>	
3	<b>Passing Marks</b>	-
4	<b>Ordinances / Regulations ( if any)</b>	-
5	<b>No. of Years / Semesters</b>	<b>Two Years (I to IV Semesters)</b>
6	<b>Level</b>	<b>P.G.</b>
7	<b>Pattern</b>	<b>Semester</b>
8	<b>Status</b>	<b>Modified &amp; Revised</b>
9	<b>To be implemented from Academic Year</b>	<b>From Academic Year: 2018-19</b>

Date: 12/04/2018

Signature :

Name: Prof. Saheb Ali



**UNIVERSITY OF MUMBAI**

**DEPARTMENT OF URDU**

**REVISED SYLLABUS FOR M.A.**

**PROGRAMME: M.A. URDU**

**SEMESTER I & II**

**CHOICE BASED CREDIT SYSTEM**

**(TO BE INTRODUCED FROM THE ACADEMIC YEAR 2018-2019)**

**Course I - Classical Urdu Literature (Poetry)**

**Ist SEMESTER**

**Code - PAURD 101**

**Credit = 6**

Unit I - A-Urdu Qasida

- i) Definition , Art, Types & Characteristics of Urdu Qasida
- ii) The Historical and Gradual Development of Urdu Qasida
- iii) Social Background and causes of decline of Urdu Qasida

B-Urdu Ghazal

- i) Definition , Art & Characteristics of Urdu Ghazal
- ii) The Historical and Gradual Development of Urdu Ghazal
- iii) Future & prospects of Urdu Ghazal

Unit II - Era, Life, Personality & Literary contribution of the following poets:

1. Sauda
2. Zauq

Unit III - Era, Life, Personality & Literary contribution of the following poets:

1. Meer
2. Momin

Unit IV A- i) Study of the following Qasaid by Mirza Mohammed Rafi Sauda:

- 1- Hua Jab Kufr Sabit hai wo Tamgha-e- Musalmani
- 2- Chehra Mahrosh Hai Ek Sunbul Mushk-e- Faam Do

ii) Study of the following Qasaid by Shaikh Mohammad Ibrahim Zauq:

- 1-Sawan Mein Diya Phir Mah-e-Shawwal Dikhai
- 2-wah wah Keya Mo'atadil Hai Bagh-e- Alam mein Hawa

B- i) Study of the following Ghazals By Meer Taqi Meer:

- 1- Junoon ne tamasha banaya hamein
- 2- Ilahi, kahan munh chhupaya hai tu ne
- 3- In balaon se kab rihai hai
- 4- Ranj kheenchey they daagh khae they
- 5-Hasti apni habaab ki si hai
- 6-Ulti ho gayce'n sab tadbeeren kuchh na dawa ne kaam kiya

ii) Study of the following Ghazals By Momin Khan Momin:

- 1-Ghairon pe khul na jaae kahin raaz dekhna
- 2-Mahshar mein pas kuen dame fariyad aagaya
- 3-Deda-e-Hairan ne tamasha kiya
- 4-Kisi ka huwa aaj kal tha kisi ka
- 5-Asar usko zara nahin hota
- 6-Who jo hum mein tum mein qarar tha tumhen yaad ho ki na yaad ho

**University of Mumbai**



**Department of Sociology**

**Masters of Arts (M.A.) Degree Program**  
**Four Semesters/ Two Years**

**Choice-Based Credit System**

**Implemented from 2016-17**

**M.G. Ranade Bhavan, Vidyanagari, Kalina Santacruz (East), Mumbai-400098.**  
**Telephone-022-26522474**

## MASTER OF ARTS IN SOCIOLOGY

### (M.A.) Degree Program

*The details of the course are given below*

[adapted from the circular from the University of Mumbai dated 23/05/2016]

**1.1 Credits:** A course that is taught for 4 hours a week for a period of 15 weeks will carry six credits.

**1.2. Course credits:** To qualify in a given course, a student will have to acquire six credits in the course. Out of these, four credits are central teaching component and two credits are for the self-study component. The self study component will consist of academic tasks outside the classroom that will be assigned by the teacher from time to time. The self study component assigned in this manner will be related to or an extension of but not in lieu of the prescribed syllabus. The self-study component will be given a weightage of 33% in the evaluation of the student. In case of courses with practical component/ field-work components, four credits are for theory and two credits shall be practical component/field-work component (regulation 5.1 to 5.9).

**1. 3. M. A. Programme:** A student who acquires a minimum of 100 credits over four semesters will be declared eligible for the award of the M.A. degree.

**1.4. Courses:** There shall be five types of courses: (i) Core Courses; (ii) Elective Courses; (iii) Interdisciplinary/Cross-disciplinary Courses; (iv) Audit Courses; (v) Project-based Courses; and (vi) Ability Enhancement Courses.

**(i) Core Courses:** Core courses are courses that impart instruction in the basic non-specialized aspects of a discipline that constitute the minimum basic competency in that discipline, regardless of any specialization that the learner might choose in the future. Core-Courses shall be offered by the parent department. Core courses shall be for six credits. Minimum 50% courses of the MA programme over four semesters must be core courses.

**(ii) Elective Courses:** Elective courses shall be courses offered by the parent department that impart instructions in specialized/advanced/supportive aspects of the relevant discipline. Each department shall offer a pool of such courses from which a student can choose. Elective Courses shall be for six credits. The syllabus for each elective course will have a preamble clearly stating the course and the learner objectives for the elective, along with the pre-requisites if any and a detailed list of references.

**(iii) Interdisciplinary or Cross Disciplinary Courses (I/C courses):** I/C courses shall be offered by parent department and departments other than the parent department. One 'course basket' shall be created for the same. Every I/C course shall be for six credits. A student may opt for an I/C course offered by his/her parent department.

**(iv) Audit Courses:** Students can audit a course from the parent department as well as from other

## M.A. Degree Programme in Sociology under CBCS at a glance

### Semester I: Core Courses

Course	Course Code
Classical Sociological Theory	CC.501.
Competing Perspectives on Indian Society	CC.502.
Classical Perspectives in Cultural Anthropology	CC.503.
Methodologies of Social Research	CC.504.

### Semester II: Core Courses

Contemporary Sociological Theories	CC.601.
Marginalised Groups and Communities: Caste, Tribe and Gender	CC.602.
Contemporary Perspectives in Cultural Anthropology	CC.603.
Theorising Development and Globalization	CC.604.

**Semester III: Electives Courses** *[Each student is required to opt for any five courses, from among the baskets or groups into which the following courses are categorized]*

Contemporary Feminist theory	
Critical Discourse Studies	
Education and Society	
Environment & Society	
Family, Marriage and Kinship	
Gender & Society	
Gender Perspectives on Development	
Industry, Labour and Globalisation	
Media and Society	
Medical Sociology	
Political Sociology	
Rural Society in India	
Sociology of Megacities	
Sociology of Law	
Sociology of Migration	

Sociology of Religion	
Tribes in India	
Visual Cultures	

#### Semester IV: Interdisciplinary, Ability Enhancement, project-Based Courses

##### a) Ability Enhancement Courses

Qualitative Research	
Quantitative Research	
Reading and Writing in the Social Sciences	

##### b) Interdisciplinary Courses

Debating the Commons	
Diaspora Studies	
Ethnography	
Human Rights in India	
The Making of Mumbai	
Popular Culture	
Science, Knowledge and Modernity	
Sociology of Social Movements	

##### c) Project based Courses

[Before the commencement of Semester IV the department will make available to the students a range of broad areas of research which are available for them to work on]

Marks	Grade Points	Grade	Performance
Less than 40	0	F	Fail
40-44.99	4	D	Pass
45-49.99	5	C	Average
50-54.99	6	B	Above Average
55-59.99	7	B+	Good
60-69.99	8	A	Very Good
70-79.99	9	A+	Excellent
80 & Above	10	O	Outstanding

Note: The Subject weight will remain as earlier.



**UNIVERSITY OF MUMBAI**  
No. UG/87 of 2016-17

**CIRCULAR:-**

A reference is invited to the Syllabi relating to the Master of Arts (M.A) degree programme vide this office Circular No. UG/45 of 2013-14, dated 17<sup>th</sup> June, 2013 and the Principals of affiliated Colleges in Arts are hereby informed that the recommendation made by Board of Studies in History & Archaeology has been accepted by the Academic Council at its meeting held on 24<sup>th</sup> June, 2016 vide item No. 4.22 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for First Year (Sem. I & II) of M.A. degree programme in the Course of History & Archaeology, which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032  
October, 2016

To,

The Principals of affiliated Colleges in Arts.

A.C/4.22/24/06/2016

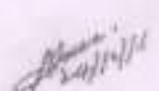
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No. UG/87 -A of 2016-17

MUMBAI-400 032 25 October, 2016

Copy forwarded with compliments for information to:-

- 1) The Dean, Faculty of Arts,
- 2) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 3) The Director, Board of College and University Development,
- 4) The Controller of Examinations,
- 5) The Co-Ordinator, University Computerization Centre.

  
(Dr.M.A.Khan)  
REGISTRAR

P.T.O.

AC 24 / 06 / 2016

Item no.4.22

# UNIVERSITY OF MUMBAI



Revised Syllabus for Sem I and II

**Program: M.A**

**Course: History & Archaeology**

**(Choice Based Credit System with effect from the Academic year 2016-17)**

## **MA Degree Program – The Structure**

Semester I: Core course from parent department (Four Courses)

Semester II: Core course from parent department (Four Courses)

---

### **SYLLABUS SEMESTER – I**

Core Paper I. – Research Methods in History

Core Paper II. – Social, Economic and Administrative History of Early India  
(up to 1000 CE)

Core Paper III. – Social, Economic and Administrative History of Medieval India  
(1200 CE – 1700 CE)

Core Paper IV. – Social, Economic and Administrative History of Modern India  
(1757 CE – 1947 CE)

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### **SEMESTER – II**

Core Paper V. – Philosophy of History

Core Paper VI. – History of Contemporary India (1947 CE – 2000 CE)

Core Paper VII. – Milestones in World History (1757 CE – 1960 CE)

Core Paper VIII. – History of Emancipatory Movements in the Modern World

UNIVERSITY OF MUMBAI



DEPARTMENT OF ARABIC

M.A. IN ISLAMIC STUDIES

REVISED SYLLABUS OF M.A. PROGRAMME IN ISLAMIC STUDIES  
PART-II (SEMESTER III & IV)

AS PER CHOICE BASED CREDIT SEMESTER SYSTEM (CBCS)

TO BE INTRODUCED FROM THE ACADEMIC YEAR 2017 – 2018

**Syllabus in brief:**  
**M.A.in Islamic Studies, Part II**

**SEMESTER III (5 ELECTIVE COURSES)**

Course Code	Nomenclature	Theory Exam	Internal Assessment	Hrs per week	Credit
PAISL-301	(1)Language	60	40	4	6
PAISL-302	(2)History of Islamic Culture in Persia	60	40	4	6
PAISL-303	History of Muslim Rule and Islamic Culture in India	60	40	4	6
PAISL-304	Islamic Sciences, Theology, Jurisprudence, Philosophy and Mysticism	60	40	4	6
PAISL-305	(1) Contribution of Islam to Natural Social Sciences, Fine Arts, Architecture and Literature	60	40	4	6
PAISL-306	(2)Islam in the Gulf Region	60	40	4	6
Internal Assessment	1.Project/Assignment/Book Review (30) 2.Attendance and active participation in departmental activities(10)	-	-	-	-

**SEMESTER IV  
(3 COURSES)**

**(I.INTERDISCIPLINARY COURSE)  
(II.ABILITY ENHANCEMENT/SKILL BASED COURSE)  
&  
(III.PROJECT BASED COURSE)**

Course Code	Nomenclature	Theory Exam	Internal Assessment	Hrs per week	Credit
	<b>I. Interdisciplinary Course</b>				
PAISL-401	(1)Language	60	40	4	6
PAISL-402	(2)History of Muslim Rule and Islamic Culture in Turkey	60	40	4	6
PAISL-403	History of Muslim Rule & Islamic Culture in India	60	40	4	6
	<b>II. Ability Enhancement Course</b>				
PAISL-404	(1)Islamic Philosophy and Mysticism	60	40	4	6
PAISL-405	(2) Important Muslim Thinkers	60	40	4	6
PAISL-406	Contribution of Islam to Sciences, Society, Politics & Literature	60	40	4	6
Internal Assessment	1.Project/Assignment/Book Review (30) 2.Attendance and active participation in departmental activities(10)	-	-	-	-
	<b>III. Project Based Course</b>	<b>Dissertation (75)</b>	<b>Presentation (25)</b>	<b>4</b>	<b>10</b>

Revised

As per letter No. A.A./ICD/2018-19/38

UNIVERSITY OF MUMBAI dt. 10/10/2018

No. UG/104 of 2018-19

Revised syllabus again - As per A.A./ICD/2018-19/332 dt. 11-01-2019

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, the Head University Departments and Directors of the recognized Institutions in Humanities Faculty is invited to this office circular No.UG/61 of 2016-17, dated 31<sup>st</sup> August, 2016 & No. UG/146 of 2017-18, dated 31<sup>st</sup> July, 2017 relating to syllabus of Master of Arts in Philosophy ( Sem. I to IV)

They are hereby informed that the recommendations made by the Board of Studies in Logic and Philosophy at its meeting held on 3<sup>rd</sup> May, 2018 have been accepted by the Academic Council at its meeting held on 14<sup>th</sup> June, 2018 vide item No. 4.60 and that in accordance therewith, the revised syllabus as per the (CBCS) for the M.A. in Philosophy – Sem. I to IV has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website [www.mu.ac.in](http://www.mu.ac.in)).

MUMBAI – 400 032  
21<sup>st</sup> August, 2018  
To

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

The Principals of the affiliated Colleges, the Head University Departments and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9<sup>th</sup> January, 2018.)

A.C./4.60/14/06/2018

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No. UG/104 -A of 2018

MUMBAI-400 032

21<sup>st</sup> August, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Logic and Philosophy,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,

  
(Dr. Dinesh Kamble)  
I/c REGISTRAR

**SYLLABI FOR POSTGRADUATE PROGRAMME  
UNDER THE DEPARTMENT OF PHILOSOPHY  
UNIVERSITY OF MUMBAI (w.e.f. 2018-19)**

- **M.A. (By Papers)**

**Cover Design by PrAjakti Pai**



## Syllabus (w.e.f. 2018-2019):

**M.A. (Philosophy) Part I (Semester I and Semester II)**

**M.A. (Philosophy) Part II (Semester III and Semester IV)**

**Choice-based Credit System (C.B.C.S.)**

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AC Item No.- 4.290

# University of Mumbai



**Syllabus for Semesters - I to IV**

**Program - M. Sc.**

**Course -Physics**

**(Credit Based Semester and Grading System**

**With effect from the academic year 2017-18)**

## Course Structure & Distribution of Credits

M. Sc. in Physics Program consists of total 16 theory courses, total 6 practical lab courses and 2 projects spread over four semesters. Twelve theory courses and four practical lab course are common and compulsory for all the students. Remaining four theory courses can be chosen from the list of elective courses offered by the institute. Two Lab courses can be chosen from the elective lab courses offered by the institute. Each theory course will be of 4 (four) credits, a each practical lab course will be of 4 (four) credits and a each project will be of 4 (four) credits. A project can be on theoretical physics, experimental physics, applied physics, development physics, computational physics or industrial product development. A student earns 24 (twenty four) credits per semester and total 96 (ninety six) credits in four semesters. The course structure is as follows,

### Theory Courses

	Paper-1	Paper-2	Paper-3	Paper-4
Semester-I	Mathematical Methods	Classical Mechanics	Quantum Mechanics I	Solid State Physics
Semester-II	Advanced Electronics	Electrodynamics	Quantum Mechanics-II	Solid State Devices
Semester-III	Statistical Mechanics	Nuclear Physics	Elective Course -1	Elective Course -2
Semester-IV	Experimental Physics	Atomic and Molecular Physics	Elective Course -3	Elective Course -4

### Practical Lab Courses

Semester-I	Lab Course -1	Lab Course -2
Semester-II	Lab Course -3	Lab Course -4
Semester-III	Project -1	Elective Lab Course-1
Semester-IV	Project -2	Elective Lab Course-2

The elective theory courses offered by PG Centers will be from the following list:

1. Nuclear Structure

UNIVERSITY OF MUMBAI

Syllabus

for

**M.A./M.Sc. Semester I & II (CBCS)**

**Program: M.A/M.Sc.**

**Course: Mathematics**

**with effect from the academic year 2017-2018**

## Preamble

The Board of Studies in Mathematics has prepared the syllabus of M.A./M.Sc. Semester I & II (w.e.f. 2017-18) in the subject of Mathematics under the Choice Based Credit System (CBCS).

A course on Complex Analysis is offered in the Semester VI of B.A./B.Sc. from the Academic year 2016-17. Consequently, in this revised syllabus of

Semester I of M.A./M.Sc. Mathematics, there is a Course on Complex Analysis and a course on Measure theory (Analysis II) in Semester II.

Skill-based Course: Each student of M.A./M.Sc. Mathematics (CBCS) Programme shall complete a skill-based course offered by the Department of Mathematics of the respective college. The skill-based course shall be offered on holidays. The skill-based course shall be of 100 hours duration and attendance of 75% shall be compulsory for this course. There shall be internal assessment and a student shall be given grades as A,B,C,D (A being the highest grade and D being the lowest grade). A student shall be required to get minimum C grade to qualify for the M.A./M.Sc. Degree. However the marks skill-based course shall not be considered for the CGPA of M.A./M.Sc. degree. Separate fees shall be collected for the skill-based courses, the quantum of which shall depend on the nature of the skill-based course.

The curriculum retains the current workload of Mathematics Departments.

(2)

**UNIVERSITY OF MUMBAI**

No. UG/146 of 2017-18

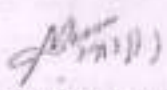
**CIRCULAR:-**

A reference is invited to the syllabi relating to the Master of Science (M.Sc.) Programme vide this office Circular No.UG/23 of 2013-14, dated 9<sup>th</sup> May, 2013 and the Principals of the affiliated Colleges in Science and the Heads of the recognized Science Institutions concerned are hereby informed that the proposal received from Chairperson, Board of Studies in Botany has been accepted by the Academic Council at its meeting held on 11<sup>th</sup> May, 2017 vide item No.4.216 and that in accordance therewith, the revised syllabus as per the (CBCS) of M.Sc. Botany (Sem -III & IV), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2017-18.

MUMBAI - 400 032

31<sup>st</sup> July, 2017

To

  
REGISTRAR

The Principals of the affiliated Colleges in Science and the Heads of the recognized Science Institutions concerned.

A.C/4.216/11/05/2017

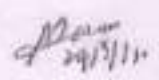
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No. UG/146 -A of 2017

MUMBAI-400 032 31<sup>st</sup> July, 2017

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Chairman, Board of Studies in Botany,
- 3) The Offg. Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,

  
REGISTRAR

....PTO

# UNIVERSITY OF MUMBAI



**Syllabus for Semester III and IV**

**Program: M.Sc.**

**Course: BOTANY**

**(Credit Based Semester and Grading System with  
effect from The academic year 2017–2018)**

### M.Sc Botany Semester III

**Outline of the Course:** PSBO301 and PSBO302 are common papers for all specialisations

**PSBO301:** Techniques and Instrumentation

**PSBO302:** Cell and Molecular Biology

**PSBO303 and PSBO304 are Optional Papers in any one of the following specialisations.**

1. Mycology and Plant Pathology (MPP)
2. Plant Physiology and Biochemistry (PPB)
3. Angiosperms and Phytochemistry (ANP)
4. Molecular Biology, Cytogenetics and Biotechnology (MCB)
5. Environmental Botany (EB)

Theory	PSBO301	:	4 Credits
	PSBO302	:	4 Credits
	PSBO303	:	4 Credits
	PSBO304	:	4 Credits
Practicals (based on all 4 courses)	: PSBOP301, PSBOP302, PSBOP303 & Project		16 Credits

### SEMESTER III Common Papers

Course Code	UNIT	TOPIC HEADINGS	Credits	L / Week
PSBO301	<b>Title of the Paper: <u>TECHNIQUES AND INSTRUMENTATION</u></b>			
	I	Biostatistics	4	1
	II	Bioinformatics		1
	III	pH and buffers and Electrophoresis		1
	IV	Colorimeter, UV-visible spectrophotometer		1
PSBO302	<b>Title of the Paper: <u>Molecular Biology</u></b>			
	I	DNA replication	4	1
	II	Transcription		1
	III	RNA processing		1
	IV	Translation		1



AC: 11-05-2017

Item No. \_\_\_\_\_

**UNIVERSITY OF MUMBAI**

**Syllabus for Approval**

Sr. No.	Heading	Particulars
1	Title of Course	<b>M.Sc. Chemistry Semester I and II</b>
2	Eligibility for Admission	The B.Sc. degree examination of this university with chemistry 6 units or 3 units or degree of any other university recognized as equivalent thereto .
3	Passing marks	<b>Minimum D Grade or equivalent minimum marks for passing at the Graduation level.</b>
4	Ordinances/Regulations (if any)	
5	No. of Years/Semesters	<b>One year/Two semester</b>
6	Level	<b>P.G. part-I</b>
7	Pattern	<b>Semester</b>
8	Status	<b>Revised</b>
9	<b>To be implemented from Academic year</b>	<b>2017-2018</b>

Date: 05-5-2017

BoS Chairperson:

Signature:

Dr. Anil V. Karnik

AC 27/2/13  
Item no. 4.39

**UNIVERSITY OF MUMBAI**



**Syllabus for Sem III and Sem IV**

**Program: M.Sc.**

**Course: Zoology-Biotechnology -  
Oceanography and Fishery Science**

(Credit Based Semester and Grading System with  
effect from the academic year 2013–2014)

**M.Sc. Semester III and IV**  
**Zoology- Biotechnology--Oceanography and Fishery Science**  
 Credit Based Semester and Grading System.  
 To Be Implemented from the Academic Year 2013-2014.

**Semester –III**

<b>Theory</b>				
Course	Unit	TOPIC	Credits	L / Week
PSZOBT301	I	The implications of recombinant DNA technology of commercial products and microbial synthesis	4	1
	II	Large scale culture & production from recombinant microorganisms & genetically engineered animal cells		1
	III	Medical Biotechnology		1
	IV	Environmental Biotechnology I		1
PSZOBT302	I	Genome management and analysis	4	1
	II	Manipulation of gene expression in prokaryotes		1
	III	Bioinformatics		1
	IV	Animal biotechnology and Human therapies		1
PSZOOCN303	I	General Oceanography	4	1
	II	Physical Oceanography		1
	III	Chemical Oceanography		1
	IV	Biological Oceanography		1
PSZOOCN304	I	Planktology	4	1
	II	Fish and Fishery Science		1
	III	Biotechnology in Fishery and Biometric Studies		1
	IV	Aquaculture		1
			<b>16</b>	<b>16</b>
<b>Practicals</b>				
PSZOBT3P1		Practicals based on PSZOBT 301	2	4
PSZOBT3P2		Practicals based on PSZOBT 302	2	4
PSZOOCN3P3		Practicals based on PSZOOCN 303	2	4
PSZOOCN3P4		Practicals based on PSZOOCN 304	2	4
<b>Total</b>			<b>08</b>	<b>16</b>
<b>TOTAL</b>			<b>24</b>	<b>32</b>

**Revised syllabus of M.Sc. Information Technology Semester III and IV**  
(Based on Credit and grading system)

**Semester III**

Course Code	Course Nomenclature	Lectures	Credits	Practical Course	Hours	Credits	Total Credits
PSIT301	Embedded Systems	60	4	PSIT3P1	60	2	6
PSIT302	Information Security Management	60	4	PSIT3P2	60	2	6
Elective 1		60	4	Elective 1	60	2	6
PSIT303a	Virtualization			PSIT3P3a			
PSIT303b	Artificial Neural Networks			PSIT3P3b			
Elective 2		60	4	Elective 2	60	2	6
PSIT304a	Digital Image Processing			PSIT3P4a			
PSIT304b	Ethical Hacking			PSIT3P4b			

**Semester IV**

Course Code	Course Nomenclature	Lectures	Credits	Practical Course	Hours	Credits	Total Credits
PSIT401	Artificial Intelligence	60	4				4
PSIT402	IT Infrastructure Management	60	4				4
Elective 1		60	4	Elective 1	60	2	6
PSIT403a	Intelligent Systems			PSIT4P3a			
PSIT403b	Real Time Embedded Systems			PSIT4P3b			
PSIT403c	Computer Forensics			PSIT4P3c			
Elective 2		60	4	Elective 2	60	2	6
PSIT404a	Design of Embedded Control Systems			PSIT4P4a			
PSIT404b	Advanced Image Processing			PSIT4P4b			
PSIT404c	Cloud Management			PSIT4P4c			
PSIT405	Project		2	PSIT4P5		2	4

# University of Mumbai



## Revised Syllabus and Question Paper Pattern of Courses of

**First Year M.Com programme**

**(Semester I & II)**

**Special Courses**

**Group - I**

**Advanced Accounting**

**Course I – Advanced Financial Accounting**

**Paper I & II**

**and**

**Course II – Advanced Cost Accounting**

**Paper I & II**

**Under Credit, Grading and Semester System**

**Revised Syllabus and  
Question Paper Pattern of Courses of  
M. Com. programme  
at  
First Year (Semester I and II)  
Advanced Accounting**

<b>Semester I</b>	
Course No.	Title of the Course
1.1.1	Advanced Financial Accounting – Paper I
1.1.2	Advanced Cost Accounting – Paper I

<b>Semester II</b>	
Course No.	Title of the Course
1.2.1	Advanced Financial Accounting – Paper II
1.2.2	Advanced Cost Accounting – Paper II

**With effect from Academic Year 2015-2016**