



SHRI VILE PARLE KELAVANI MANDAL's
USHA PRAVIN GANDHI COLLEGE OF ARTS, SCIENCE & COMMERCE



Bhakti Vedanta Swami Marg, North-South Road No. 1,
Juhu Scheme, Vile Parle (West), Mumbai 400 056.

Supporting Documents for Metric No. 1.2.1

Index for documents for Metric No. 1.2.1

Sr. No.	Document
1.	University Circular – Bachelor of Arts in Multimedia and Mass communication
2.	University Circular - Bachelor of Arts in Film Television and New Media Production
3.	University Circular – Bachelor of Management Studies
4.	University Circular – Bachelors of Science in Information Technology
5.	University Circular – Master of Arts in Entertainment, Media & Advertising
6.	University Circular – Master of Commerce
7.	University Circular – Master of Science in Information Technology



University of Mumbai



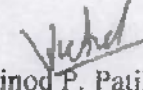
No. UG/42 of 2019-20

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. 251 of 2003, dated 16th June, 2003 relating to Bachelor of Mass Media (B.M.M.) degree course.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Mass Media at its meeting held on 26th April, 2019 have been accepted by the Academic Council at its meeting held on 10th May, 2019 (vide item No. 4.20) and subsequently approved by the Management Council at its meeting held on 13th September, 2019 (vide item No. 14) and that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 74(4) of the Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017) and the amended Ordinance 5205 relating to change the nomenclature of course of Bachelor of Mass Media to B.A. in Multimedia and Mass Communication B.A. (M.M.C.) and also the revised syllabus as per the (CBCS) for B. A. in Multimedia and Mass Communication B.A. (M.M.C.) in Sem I and II, has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in)

MUMBAI - 400 032
15th November, 2019
To,


(Dr. Vinod P. Patil)
I/c REGISTRAR

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

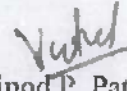
A.C/4.20/10/05/2019
M.C/14/13/09/2019

No. UG/42 -A of 2019 MUMBAI-400 032
Copy forwarded with Compliments for information to:-

15th November, 2019

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Ad-hoc Board of Studies in Mass Media
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development
- 5) The Co-ordinator, University Computerization Centre.




(Dr. Vinod P. Patil)
I/c REGISTRAR



AC : _____

Item No. _____

UNIVERSITY OF MUMBAI

Sr. No.	Heading	Particulars
1	Title of the Course	BA in Multimedia and Mass Communication (BAMMC)
2	Eligibility for Admission	12 th pass.
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	--
5	No. of Years / Semesters	03 years & 06 semesters
6	Level	P.G. / <input checked="" type="checkbox"/> U.G. / Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester <input checked="" type="checkbox"/> CBCS (Strike out which is not applicable)
8	Status	New / Revised <input checked="" type="checkbox"/> CBCS (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year <u>2019-20</u> in Progressive manner.

April 26, 2019.

Signature : Name of BOS Chairperson / Dean : Dr. Sunder Rajdeep

1




University of Mumbai




UG/199of 2019-20

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to the syllabus uploaded by the Academic Council at its meeting held on 25th May, 2019 vide item No. 428 relating to the revised syllabus as per (CBSGS) for the Bachelor of Mass Media and to this office Circular No.UG/142 dated 19th November, 2019 regarding the amended Ordinance 5205 relating to change the nomenclature of course of Bachelor of Mass Media to B.A. in Multimedia and Mass Communication B.A. (M.M.C.) and also the revised syllabus as per the (CBCS) for B.A. in Multimedia and Mass Communication B.A. (M.M.C.) in Sem. I and II.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Mass Media at its meeting held on 25th July, 2019 and subsequently approved by the Board of Deans at its meeting held on 1st October, 2019 vide item No. 70 & 71 have been accepted by the Academic Council at its meeting held on 3rd October, 2019 vide item No. 48 and 49 and that in accordance therewith, the revised syllabus as per the (CBCS) for the B.A. in Multimedia and Mass Communication Course (Sem. III & IV) and (Sem. V & VI) has been brought into force with effect from the academic year 2020-21 and 2021-22 accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032
30th December, 2019


(Dr. Ajay Deshmukh)
REGISTRAR

To

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

A.C. 48 & 49 03/10/2019


No. UG/186-A of 2019

MUMBAI-400 032

30th December, 2019

Copy forwarded with Compliments for information to:-

- 1) The Chairman, Board of Deans,
- 2) The Dean, Faculty of Humanities,
- 3) The Chairman, Board of Studies in Mass Media,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,


(Dr. Ajay Deshmukh)
REGISTRAR



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Cover Page

AC 03/10/2019

Item No. 4.8

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	Second Year Multimedia and Mass Communication (SYMMC)
2	Eligibility for Admission	-
3	Passing Marks	-
4	Ordinances / Regulations (if any)	-
5	No. of Years / Semesters	TWO
6	Level	P.G. / U.G. / Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year 2020-20-21

Date:

Signature:

Name of BOS Chairperson / Dean:

Dr. Suresh Rajlekar



H. Kapoor

Cover Page

AC 03/10/2019
Item No. 4-9

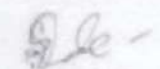
UNIVERSITY OF MUMBAI




Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	Third Year Multimedia and Mass Communication (TYMMC)
2	Eligibility for Admission	-
3	Passing Marks	-
4	Ordinances / Regulations (if any)	-
5	No. of Years / Semesters	TWO
6	Level	P.G. / U.G. / Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year 2021-2022

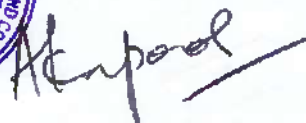
Date:

Signature: 

Name of BOS Chairperson / Dean:







AC : _

Item No.

UNIVERSITY OF MUMBAI



Sr. No.	Heading	Particulars
1	Title of the Course	BA in Multimedia and Mass Communication (BAMMC)
2	Semesters	03,04, 05 and 06
3	Level	P.G. / <input checked="" type="checkbox"/> U.G./ Diploma / Certificate (Strike out which is not applicable)
4	Pattern	Yearly / Semester <input checked="" type="checkbox"/> CBCS (Strike out which is not applicable)
5	Status	New / Revised <input checked="" type="checkbox"/> CBCS (Strike out which is not applicable)
6	To be implemented from Academic Year	From Academic Year <u>2020-21</u> in Progressive manner.

Date:

Signature :

Name of BOS Chairperson / Dean : Dr. Sunder Rajdeep



Cover Page

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	B.A. (Film, Television and New Media Production)
2	Eligibility Admission for	12th pass.
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	--
5	No. of Years / Semesters	03 years & 06 semesters
6	Level	P.G. / <input checked="" type="checkbox"/> U.G./ Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester <input checked="" type="checkbox"/> (Strike out which is not applicable)
8	Status	New / Revised <input checked="" type="checkbox"/> (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year <u>2017-18.</u>



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S.R.

Date: 20/2/2017

Signature :

Name of BOS Chairperson ✓ / Dean : Dr. Sunder Rajdeep



S.R.

AC _____

Item No. _____

University of Mumbai



**Revised Syllabus for the
B.A. (Film, Television and New Media Production)
Semester I to VI**

(As Per CBCS

With effect from the academic year 2017-18 for
Semester I to VI)



A Kapoor

UNIVERSITY OF MUMBAI
No. UG/109 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 14th June, 2011 the Principals of affiliated Colleges in Commerce are hereby informed that the approved by the Academic Council at its meeting held on 24th 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) 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

No. UG/109-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..



AC 24-06-2016

Item No. 4.80

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



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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
1	Elective Courses (EC)		1	Elective Courses (EC)	
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
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)		2A	Ability Enhancement Compulsory Course (AECC)	
4	Business Communication - I	03	4	Business Communication -II	03
2B	*Skill Enhancement Courses (SEC)		2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of courses	02	5	Any one course from the following list of the courses	02
3	Core Courses (CC)		3	Core Courses (CC)	
6	Foundation of Human Skills	03	6	Business Environment	03
7	Business Economics-I	03	7	Principles of Management	03
Total Credits		20	Total Credits		20

*List of Skill Enhancement Courses (SEC) for Semester I (Any One)		**List of Skill Enhancement Courses (SEC) for Semester II (Any One)	
1	Foundation Course - I	1	Foundation Course - 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



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SYBMS

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
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	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
3	Information Technology in Business Management - I	02	3	Information Technology in Business Management-II	02
3	Core Courses (CC)		3	Core Courses (CC)	
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
Total Credits		20	Total Credits		20

<i>*List of group of Elective Courses(EC) for Semester III (Any two)</i>		<i>** List of group of Elective Courses(EC) for Semester IV (Any two)</i>	
Group A: Finance Electives (Any Two Courses)			
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
Group B: Marketing Electives (Any Two Courses)			
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
Group C: Human Resource Electives (Any Two Courses)			
1	Recruitment & Selection	1	Human Resource Planning & Information System
2	Motivation and Leadership	2	Training & Development in HRM
3	Employees Relations & Welfare	3	Change Management
4	Organisation Behaviour & HRM	4	Conflict & Negotiation
Note: Group selected in Semester III will continue in Semester IV			



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TYBMS

(To be implemented from Academic Year- 2018-2019)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
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	Core Courses (CC)		2	Core Courses (CC)	
5	Logistics & Supply Chain Management	04	5	Operation Research	04
3	✓ Project Work		3	✓ Project Work	
6	Project Work I	04	6	Project Work II	04
Total Credits		20	Total Credits		20

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

*List of group of Elective Courses(EC) for Semester V (Any four)		** List of group of Elective Courses(EC) for Semester VI (Any four)	
Group A: Finance Electives (Any four Courses)			
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
Group B: Marketing Electives (Any four Courses)			
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
Group C: Human Resource Electives (Any four Courses)			
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			

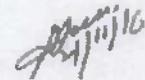


UNIVERSITY OF MUMBAI
No. UG/176 of 2016-17

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 20th 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 4th July, 2016 has been accepted by the Academic Council at its meeting held on 14th 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) 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

No. UG/176 -A of 2016

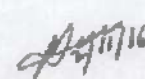
MUMBAI-400 032

22 November, 2016

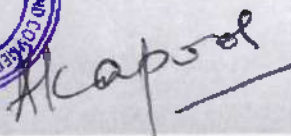
Copy forwarded with Compliments for information to:-

- 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



Usha Prakash

Semester – 1			
Course Code	Course Type	Course Title	Credits
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
Total Credits			20

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



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Academic Council 11/05/2017

Item No: 4.233

UNIVERSITY OF MUMBAI



Syllabus for S.Y.B.Sc.

Programme: B.Sc.

Course: Information Technology

with effect from the academic year

2017 – 2018



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Semester – 3			
Course Code	Course Type	Course Title	Credits
USIT301	Skill Enhancement Course	Python Programming	2
USIT302	Core Subject	Data Structures	2
USIT303	Core Subject	Computer Networks	2
USIT304	Core Subject	Database Management Systems	2
USIT305	Core Subject	Applied Mathematics	2
USIT3P1	Skill Enhancement Course Practical	Python Programming Practical	2
USIT3P2	Core Subject Practical	Data Structures Practical	2
USIT3P3	Core Subject Practical	Computer Networks Practical	2
USIT3P4	Core Subject Practical	Database Management Systems Practical	2
USIT3P5	Core Subject Practical	Mobile Programming Practical	2
Total Credits			20

Semester – 4			
Course Code	Course Type	Course Title	Credits
USIT401	Skill Enhancement Course	Core Java	2
USIT402	Core Subject	Introduction to Embedded Systems	2
USIT403	Core Subject	Computer Oriented Statistical Techniques	2
USIT404	Core Subject	Software Engineering	2
USIT405	Core Subject	Computer Graphics and Animation	2
USIT4P1	Skill Enhancement Course Practical	Core Java Practical	2
USIT4P2	Core Subject Practical	Introduction to Embedded Systems Practical	2
USIT4P3	Core Subject Practical	Computer Oriented Statistical Techniques Practical	2
USIT4P4	Core Subject Practical	Software Engineering Practical	2
USIT4P5	Core Subject Practical	Computer Graphics and Animation Practical	2
Total Credits			20



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UNIVERSITY OF MUMBAI

No. UG/76 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/66 of 2012-13, dated 12th September, 2012 relating to syllabus of the Bachelor of Science (B.Sc.) programme in the course of Information Technology.

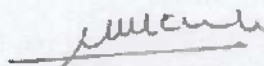
They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Information Technology at its meeting held on 8th June, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 vide item No. 4.49 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.Sc. in Information Technology (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).

MUMBAI - 400 032

6th June, 2018

To

July



(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, 9th January, 2018.)

A.C/4.49/14/06/2018

No. UG/ 76 -A of 2018

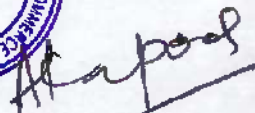
MUMBAI-400 032

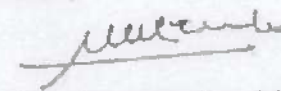
6th June, 2018
July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Ad-hoc Board of Studies in Information Technology,
- 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

Academic Council 14/06/2018

Item No:4.49

UNIVERSITY OF MUMBAI



Syllabus for T.Y.B.Sc.

Programme: B.Sc.

Subject: Information Technology

(Choice Based Credit System)

(with effect from the academic year 2018 – 2019)



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Semester – 5			
Course Code	Course Type	Course Title	Credits
USIT501	Skill Enhancement Course	Software Project Management	2
USIT502	Skill Enhancement Course	Internet of Things	2
USIT503	Skill Enhancement Course	Advanced Web Programming	2
USIT504	Discipline Specific Elective (Any One)	Artificial Intelligence	2
USIT505		Linux System Administration	
USIT506	Discipline Specific Elective (Any One)	Enterprise Java	2
USIT507		Next Generation Technologies	
USIT5P1	Skill Enhancement Course Practical	Project Dissertation	2
USIT5P2	Skill Enhancement Course Practical	Internet of Things Practical	2
USIT5P3	Skill Enhancement Course Practical	Advanced Web Programming Practical	2
USIT5P4	Discipline Specific Elective Practical (Any One)*	Artificial Intelligence Practical	2
USIT5P5		Linux Administration Practical	
USIT5P6	Discipline Specific Elective Practical (Any One)*	Enterprise Java Practical	2
USIT5P7		Next Generation Technologies Practical	
Total Credits			20

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

Semester – 6			
Course Code	Course Type	Course Title	Credits
USIT601	Skill Enhancement Course	Software Quality Assurance	2
USIT602	Skill Enhancement Course	Security in Computing	2
USIT603	Skill Enhancement Course	Business Intelligence	2
USIT604	Discipline Specific Elective (Any One)	Principles of Geographic Information Systems	2
USIT605		Enterprise Networking	
USIT606	Discipline Specific Elective (Any One)	IT Service Management	2
USIT607		Cyber Laws	
USIT6P1	Skill Enhancement Course Practical	Project Implementation	2
USIT6P2	Skill Enhancement Course Practical	Security in Computing Practical	2
USIT6P3	Skill Enhancement Course Practical	Business Intelligence Practical	2
USIT6P4	Discipline Specific Elective Practical (Any One)*	Principles of Geographic Information Systems Practical	2
USIT6P5		Enterprise Networking Practical	
USIT6P6	Skill Enhancement Course Practical	Advanced Mobile Programming	2
Total Credits			20

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



University of Mumbai



CIRCULAR:-

No. UG/ 59 of 2019-20

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/174 of 2016-17, dated 22nd November, 2016 relating to the revised syllabus as per the (CBCS) for (Sem. I & II) of M.A. Programme in Entertainment, Media and Advertising w.e.f. the academic year 2016-17.

Syllabus uploaded by Academic Authority Unit which was accepted by the Academic Council at its meeting held on 11th May, 2017 vide item No. 4.128 relating to the syllabus as per (CBCS) (Sem. III to IV) for the M.A. (Media, Entertainment and Advertising) w.e.f. the academic year 2017-18.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Mass Media at its meeting held on 26th April, 2019 have been accepted by the Academic Council at its meeting held on 10th May, 2019 vide item No. 4.21 and that in accordance therewith, the revised syllabus as per (CBCS) for the M.A. in Entertainment Media and Advertising M A (EMA) - Sem. I to IV has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032
15th July, 2019

[Signature]
(Dr. Ajay Deshmukh)
REGISTRAR

To
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 9th January, 2018.)

A.C/4.21/10/05/2019

No. UG/59 -A of 2019

MUMBAI-400 032

15th July, 2019

Copy forwarded with Compliments for information to:-

- 1) The I/e Dean, Faculty of Humanities.
- 2) The Chairman, Board of Studies in Mass Media
- 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

[Signature]
(Dr. Ajay Deshmukh)
REGISTRAR



[Signature]
Akrapool

AC : 10/05/2019

Item No. 4.21

UNIVERSITY OF MUMBAI

Sr. No.	Heading	Particulars
1	Title of the Course	M.A. (Entertainment , Media & Advertising)
2	Eligibility for Admission	Graduation
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	--
5	No. of Years / Semesters	02 years & 04 semesters
6	Level	√P.G. / U.G./ Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester √ CBCS (Strike out which is not applicable)
8	Status	New / Revised √ CBCS (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year <u>2019-20</u> in Progressive manner.

Signature :  Date : April 26, 2019.Name of BOS Chairperson √ / Dean : Dr. Sunder Rajdeep

PROGRAM OUTCOMES

1. The program will primarily enable the students to understand & appreciate the relevance of Media (Social science/ Interdisciplinary) research.
2. This program will provide an excellent foundation for Doctoral & Post Doctoral research in Media & Communication studies - in fields of Advertising, Entertainment & Media.
3. The program will enhance their ability to hone their analytical skills & prepare them both for being academicians or for working in the industry.
4. It will enable them to have a 360 degree perspective on the nuances of Media industries & Interdisciplinary or allied industries as well.
5. This program highlights amalgamation of humanities, Social Sciences & New Media into Advertising, Media & Entertainment to make students aware of developments both in the global & local spheres.
6. In this program there is an emphasis on Culture, Communication networks in Societies & it showcases how different cultures are reflected in various practices, systems & beliefs in both different parts of the country & the world..
7. This program will equip the learners with professional skills essential for making career in Entertainment industry, Cinema, Television, OTT Platforms, social media platforms etc.
8. Students would demonstrate the ability to apply ethical principles in a variety of creative, cinematic, organizational, Advertising and venues in New Media.
9. Learners will understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints..
10. They will be better equipped to grasp the complex relationship between communication/media theories and a diverse set of individual, social, and professional practices.
11. Learners will understand the underlying philosophical assumptions of, and be able to apply, communication research methods to address a range of media texts and audiences.



Semester I

Course Code	Name of Course A. Core Courses	Term work	
		Teaching and Extension	Credits
PAEMA 101	Overview I: Print, Radio, Television and Advertising	60	6
PAEMA 102	Overview II: Film, Digital, Events, Gaming and Animation	60	6
PAEMA 103	Media Communication Theories	60	6
PAEMA 104	Media Management	60	6
Total		240	24

Semester II

Course Code	Name of Course A. Core Courses	Term work	
		Teaching and Extension	Credits
PAEMA 205	Introduction to Media Research	60	6
PAEMA 206	Media Marketing (IMC)	60	6
PAEMA 207	Media Finance & Accounting	60	6
PAEMA 208	Entrepreneurship, Innovation & Media Laws	60	6
Total		240	24

SPECIALIZATION in Film and Television Semester –III**Semester –III – Students to choose four subjects**

Course Code	Name of Course A. Core Courses	Term work	
		Teaching and Extension	Credits
PAEMA FT 309	Broadcast Business Management	60	6
PAEMA FT 310	Film Production & Content pipeline	60	6
PAEMA FT 311	An Orientation to New Media Technologies	60	6
PAEMA FT 312	Television & Radio Production & Programming	60	6
PAEMA FT 313	Film Distribution and Marketing	60	6
Total		240	24



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SEMESTER –IV

	A. Optional Courses	Teaching and Extension	Credits
PAEMA FT 414	Media Research Analytical Skills	60	6
PAEMA FT 3415	Business Plan and Negotiation Skills	60	6
PAEMA FT 416	B. Dissertation / Field Project	120	12
Total		240	24

SPECIALIZATION in Advertising and Marketing Communication

Semester –III – Students to choose four subjects

Course Code	Name of Course B. Core Courses	Term work	
		Teaching and Extension	Credits
PAEMA AM 309	Account Planning &Media Business	60	6
PAEMA AM 310	Media &Consumer Behaviour	60	6
PAEMA AM 311	Strategic Brand Management	60	
PAEMA AM 312	Advertising Agency Structure & Management	60	6
PAEMA AM 313	Media Planning and Buying	60	6
Total		240	24

SEMESTER –IV

	C. Optional Courses	Teaching and Extension	Credits
PAEMA AM 414	Media Research Analytical Skills	60	6
PAEMA M 3415	Digital and Socials Media Advertising & Marketing	60	6
PAEMA AM 416	D. Dissertation / Field Work	120	12
Total		240	24



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University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses
of
Master of Commerce (M.Com)
Programme
at
Two Year
Semester I and II**

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

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

Faculty of Commerce, University of Mumbai



Faculty of Commerce, University of Mumbai

-
Master of Commerce (M.Com) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

M.Com I

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

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credit
1	Core Courses (CC)		1	Core Courses (CC)	
1	Strategic Management	06	1	Research Methodology for Business	06
2	Economics for Business Decisions	06	2	Macro Economics concepts and Applications	06
3	Cost and Management Accounting	06	3	Corporate Finance	06
4	Business Ethics and Corporate Social Responsibility	06	4	E-Commerce	06
Total Credits		24	Total Credits		24



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Faculty of Commerce, University of Mumbai

Master of Commerce (M.Com) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

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

Semester I

No. of Courses	Semester I	Credits
1	Core Courses (CC)	
1	Strategic Management	06
2	Economics for Business Decisions	06
3	Cost and Management Accounting	06
4	Business Ethics and Corporate Social Responsibility	06
Total Credits		24

Revised Syllabus of Courses of
Master of Commerce (M.Com) Programme at Semester I

Faculty of Commerce, University of Mumbai

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2

UNIVERSITY OF MUMBAI
No. UG/233 of 2017-18

CIRCULAR:-

A reference is invited to the syllabi relating to the Master of Commerce (M.Com.) Programme vide this office Circular No.UG/144 of 2011, dated 14th June, 2011 and the Principals of the affiliated Colleges in Commerce are hereby informed that the proposal received from Ad-hoc Dean, Faculty of Commerce and Management has been accepted by the Academic Council at its meeting held on 11th May, 2017 vide item No.4.184 and that in accordance therewith, the revised syllabus as per the (CBCS) for Master of Commerce (M.Com.) (Sem -III & IV), which is available on the University's website (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
27th August, 2017
To Sept.

M. A. M.
REGISTRAR

The Principals of the affiliated Colleges in Commerce.

A.C/4.184/11/05/2017

No. UG/233 -A of 2017

MUMBAI-400 032 27th August, 2017
Sept.

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Commerce & Management,
- 2) The Chairman, Ad-hoc Board of Studies in Commerce and Management,
- 3) The Offg. 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,

M. A. M.
REGISTRAR
....PTO



University of Mumbai



**Revised Syllabus of Courses
of
Master of Commerce (M.Com)
Programme
at
Second Year
Semester III and IV**

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

(To be implemented from Academic Year 2017-2018)

Faculty of Commerce



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Faculty of Commerce, University of Mumbai

1 | Page

Master of Commerce (M.Com) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

M.Com II

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 and 3	*Any one group of courses from the following list of the courses (Group – A/B/C/D/E)	18	1,2 and 3	**Any one group of courses from the following list of the courses (Group – A/B/C/D/E)	18
2	✓ Project Work		2	✓ Project Work	
4	Project Work - I	06	4	Project Work - II	06
	Total Credits	24		Total Credits	24

✓ **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 06 credits. A project work may be undertaken in any area of Elective Courses



1	*List of group of Elective Courses (EC) for Semester III (Any Three out of Five)		1	** List of group of Elective Courses (EC) for Semester IV (Any Three out of Five)	
Group A: Advanced Accounting, Corporate Accounting and Financial Management					
1	Advanced Financial Accounting	06	1	Corporate Financial Accounting	06
2	Direct Tax	06	2	Indirect Tax- Introduction of Goods and Service Tax	06
3	Advanced Cost Accounting	06	3	Financial Management	06
4	Advanced Auditing	06	4	International Financial Reporting Standards	06
5	Financial Services	06	5	Personal Financial Planning	06
Group B: Business Studies (Management)					
1	Human Resource Management	06	1	Supply chain management and logistics	06
2	Rural Marketing	06	2	Advertising and sales Management	06
3	Entrepreneurial Management	06	3	Retail Management	06
4	Marketing Strategies and practices	06	4	Tourism Management	06
5	Organizational Behaviour	06	5	Management of Business Relations	06
Group C : Banking & Finance					
1	Banking Law and Practices	06	1	Cooperative Banking System	06
2	(Skill based) Legal framework of banking	06	2	Financial Institutions and Markets	06
3	Commercial Bank Management	06	3	Accounting and Auditing of Banking	06
4	Investment Management Analysis	06	4	International Finance	06
5	Financial Risk Management	06	5	Financial Services	06
Group D : E-Commerce					
1	Database Management System	06	1	E-Commerce Security and Law	06
2	Internet & Web-Designing (skill based)	06	2	Advance technology for E-Commerce	06
3	Network Infrastructure and Payment System	06	3	Management Information System	06
4	Logistic & supply chain Management in E-Commerce	06	4	Digital Marketing	06
5	Business Models in E-Commerce & ICT Applications	06	5	International Business, Law and Taxation	06



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Faculty of Commerce, University of Mumbai

1 *List of group of Elective Courses (EC) for Semester III (Any Three out of Five)			1 ** List of group of Elective Courses (EC) for Semester IV (Any Three out of Five)		
Group E : Business Economics					
1	Economics of Growth and Development	06	1	Urban Economics	06
2	Applied Econometrics	06	2	Entrepreneurship and family business	06
3	Agriculture Economics	06	3	Indian Financial system	06
4	Monetary Economics	06	4	International Economics	06
5	Industrial Economics	06	5	Economics of Services	06
Note: Group selected in Semester III will continue in Semester IV					



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University of Mumbai



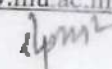
No. UG/106 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, the Head of the University Department and Directors of the recognized Institutions in Science & Technology Faculty is invited to the syllabus uploaded by Academic Authority Unit which was accepted by the Academic Council at its meeting held on 27th February, 2013 vide item No. 4.133 relating to the revised syllabus as per (CBSGS) for M.Sc. Information Technology (Sem. I & II).

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Information & Technology at its meeting held on 25th July, 2019 have been accepted by the Academic Council at its meeting held on 26th July, 2019 vide item No.4.76 and that in accordance therewith, the revised syllabus as per the (CBCS) for the M.Sc. (I. T.) (Part - I) (Sem.-I & II) has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032
11th September, 2019


(Dr. Ajay Deshmukh)
REGISTRAR

To

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

A.C/4.76/26/07/2019

No. UG/106 -A of 2019-20

MUMBAI-400 032

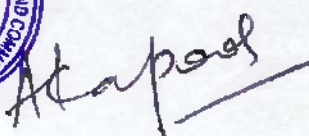
11th September, 2019

Copy forwarded with Compliments for information to:-

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


(Dr. Ajay Deshmukh)
REGISTRAR





Cover Page

AC 26/07/2019
Item No. 476

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	M.Sc In <u>Information Technology Part I</u>
2	Eligibility for Admission	B.Sc (Ct), B.Sc (Cs), B.G, BCA (Sem I & II) B.Sc (Phy), B.Sc (Maths), B.Sc (Stats) B.Sc (Electronics)
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	-
5	No. of Years / Semesters	Two Years - Four Semesters
6	Level	P.G. / U.G. / Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year <u>2019-2020</u>

Date: 25/7/19

Signature:

Name of BOS Chairperson / Dean: Dr. (Mrs.) R. Srivaramangai

rsrivamangai@uomv.ac.in



Kapoor

Academic Council: 26/07/2019

Item No: 4.76

UNIVERSITY OF MUMBAI



Syllabus for M.Sc. Part I

(Semester I and II)

Programme: M.Sc.

Subject: Information Technology

(Choice Based Credit System with effect from
the academic year 2019 – 2020)



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Semester – I		
Course Code	Course Title	Credits
PSIT101	Research in Computing	4
PSIT102	Data Science	4
PSIT103	Cloud Computing	4
PSIT104	Soft Computing Techniques	4
PSIT1P1	Research in Computing Practical	2
PSIT1P2	Data Science Practical	2
PSIT1P3	Cloud Computing Practical	2
PSIT1P4	Soft Computing Techniques Practical	2
Total Credits		24

Semester – II		
Course Code	Course Title	Credits
PSIT201	Big Data Analytics	4
PSIT202	Modern Networking	4
PSIT203	Microservices Architecture	4
PSIT204	Image Processing	4
PSIT2P1	Big Data Analytics Practical	2
PSIT2P2	Modern Networking Practical	2
PSIT2P3	Microservices Architecture Practical	2
PSIT2P4	Image Processing Practical	2
Total Credits		24



A Kapoor

University of Mumbai



No. UG/23 of 2020-21

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, the Head University Departments and Directors of the recognized Institutions in Science & Technology Faculty is invited to the syllabus uploaded Academic Authority Unit which was accepted by the Academic Council at its meeting held on 7th April, 2014 vide item No. 4.39 relating to the revised syllabus as per the (CBGS) of M.Sc. in Information Technology (Sem. III & IV).

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Information Technology at its meeting held on 17th April, 2020 vide Item No.1 and subsequently made by the Board of Deans at its meeting held on 20th July, 2020 vide item No. 48 have been accepted by the Academic Council at its meeting held on 23rd July, 2020 vide item No. 4.100 and that in accordance therewith, the revised syllabus as per the (CBCS) of M.Sc. Part-II (Sem-III & IV) in Information Technology has been brought into force with effect from the academic year 2020-21 accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

11th November, 2020

To


(Dr. Vinod Patil)
I/c REGISTRAR

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

A.C/4.100/23/07/2020


No. UG/23 -A of 2020-21

MUMBAI-400 032

11th November, 2020

Copy forwarded with Compliments for information to:-

- 1) The Dean, Faculty of Science & Technology,
- 2) The Chairman, Ad-hoc Board of Studies in Information Technology,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-ordinator, University Computerization Centre,


(Dr. Vinod Patil)
I/c REGISTRAR





Copy to :-

1. **The Director of Board of Student Development.,**
 2. **The Deputy Registrar (Eligibility and Migration Section)**
 3. **The Director of Students Welfare,**
 4. **The Executive Secretary to the to the Vice-Chancellor,**
 5. **The Pro-Vice-Chancellor**
 6. **The Registrar and**
 7. **The Assistant Registrar, Administrative sub-centers, Ratnagiri, Thane & Kalyan, for information.**
-
1. **The Director of Board of Examinations and Evaluation**
 2. **The Finance and Accounts Officers**
 3. **Record Section**
 4. **Publications Section**
 5. **The Deputy Registrar, Enrolment, Eligibility and Migration Section**
 6. **The Deputy Registrar (Accounts Section), Vidyanagari**
 7. **The Deputy Registrar, Affiliation Section**
 8. **The Professor-cum- Director, Institute of Distance and Open Learning Education,**
 9. **The Director University Computer Center (IDE Building), Vidyanagari,**
 10. **The Deputy Registrar (Special Cell),**
 11. **The Deputy Registrar, (PRO)**
 12. **The Deputy Registrar, Academic Authorities Unit (1 copies) and**
 13. **The Assistant Registrar, Executive Authorities Unit**

They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection.

1. **The Assistant Registrar Constituent Colleges Unit**
2. **BUCTU**
3. **The Deputy Accountant, Unit V**
4. **The In-charge Director, Centralize Computing Facility**
5. **The Receptionist**
6. **The Telephone Operator**
7. **The Secretary MUASA**
8. **The Superintendent, Post-Graduate Section**
9. **The Superintendent, Thesis Section**

for information.



AKapoor

AC _____

Item No: _____

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1.	Title of the Course	M.Sc. (Information Technology) Part II
2.	Eligibility for Admission (Lateral Entry) (Students who would like to have additional degrees)	Students who have completed MCA, M.Sc. Computer Science / Mathematics / Statistics / Physics / Electronics / Data Science, M.B.A. (I.T), M.C.M., M.Tech (20% extra seats to provided for these students) M.Sc IT from University of Mumbai (with previous syllabus under General IT) or other recognized Institutions who are willing to do specialized degree
3.	Passing Marks	40%
4.	Ordinances / Regulations (if, any)	Existing ordinances and regulations.
5.	Number of years / Semesters	Two years – Four Semesters
6.	Level	P.G. / U.G. /Diploma / Certificate (Strike out which is not applicable)
7.	Pattern	Yearly / Semester, Choice Based (Strike out which is not applicable)
8.	Status	New / Revised
9.	To be implemented from Academic year	From the Academic Year 2020 – 2021

Date: April 17, 2020

Name of the BoS Chairperson / Dean:

Signature: _____

Dr. (Mrs.) R. Srivaramangai
(rsrimangai@udit.mu.ac.in)

R. Srivaramangai

Academic Council _____
Item No: _____

UNIVERSITY OF MUMBAI



Syllabus for M.Sc. I.T. Part II

Semester III and IV

Programme: M.Sc.

Subject: Information Technology

CHOICE BASED (REVISED)

with effect from the academic year

2020 – 2021



Artificial Intelligence Track
Image Processing Track
Cloud Computing Track
Security Track

SEMESTER - III						
Course Code	Course Title		Credits	Course Code	Practical	Credits
	Theory					
PSIT301	Technical Writing and Entrepreneurship Development		4	PSIT3P1	Project Documentation and Viva	2
Elective 1: Select Any one from the courses listed below along with corresponding practical course						
PSIT302a	Applied Artificial Intelligence		4	PSIT3P2a	Applied Artificial Intelligence Practical	2
PSIT302b	Computer Vision			PSIT3P2b	Computer Vision Practical	
PSIT302c	Cloud Application Development			PSIT3P2c	Cloud Application Development Practical	
PSIT302d	Security Breaches and Countermeasures			PSIT3P2d	Security Breaches and Countermeasures Practical	
Elective 2: Select Any one from the courses listed below along with corresponding practical course						
PSIT303a	Machine Learning		4	PSIT3P3a	Machine Learning Practical	2
PSIT303b	Biomedical Image Processing			PSIT3P3b	Biomedical Image Processing Practical	
PSIT303c	Cloud Management			PSIT3P3c	Cloud Management Practical	
PSIT303d	Malware Analysis			PSIT3P3d	Malware Analysis Practical	
Elective 3: Select Any one from the courses listed below along with corresponding practical course						
PSIT304a	Robotic Process Automation		4	PSIT3P4a	Robotic Process Automation Practical	2
PSIT304b	Virtual Reality and Augmented Reality			PSIT3P4b	Virtual Reality and Augmented Reality Practical	
PSIT304c	Data Center Technologies			PSIT3P4c	Data Center Technologies Practical	
PSIT304d	Offensive Security			PSIT3P4d	Offensive Security Practical	
	Total Theory Credits		16		Total Practical Credits	8
Total Credits for Semester III: 24						



SEMESTER - IV					
Course Title					
Course Code	Theory	Credits	Course Code	Practical	Credits
PSIT401	Blockchain	4	PSIT4P1		2
Elective 1: Select Any one from the courses listed below along with corresponding practical course					
PSIT402a	Natural Language Processing	4	PSIT4P2a	Natural Language Processing Practical	2
PSIT402b	Digital Image Forensics		PSIT4P2b	Digital Image Forensics Practical	
PSIT402c	Advanced IoT		PSIT4P2c	Advanced IoT Practical	
PSIT402d	Cyber Forensics		PSIT4P2d	Cyber Forensics Practical	
Elective 2: Select Any one from the courses listed below along with corresponding practical course					
PSIT403a	Deep Learning	4	PSIT4P3a	Deep Learning Practical	2
PSIT403b	Remote Sensing		PSIT4P3b	Remote Sensing Practical	
PSIT403c	Server Virtualization on VMWare Platform		PSIT4P3c	Server Virtualization on VMWare Platform Practical	
PSIT403d	Security Operations Center		PSIT4P3d	Security Operations Center Practical	
Elective 3: Select Any one from the courses listed below. Project Implementation and Viva is compulsory					
PSIT404a	Human Computer Interaction	4	PSIT4P4	Project Implementation and Viva	2
PSIT404b	Advanced Applications of Image Processing				
PSIT404c	Storage as a Service				
PSIT404d	Information Security Auditing				
Total Theory Credits		16	Total Practical Credits		8
Total Credits for Semester IV: 24					

If a student selects all 6 papers of Artificial Intelligence Track, he should be awarded the degree **M.Sc. (Information Technology), Artificial Intelligence Specialisation.**

If a student selects all 6 papers of Image Processing Track, he should be awarded the degree **M.Sc. (Information Technology), Image Processing Specialisation.**

If a student selects all 6 papers of Cloud Computing Track, he should be awarded the degree **M.Sc. (Information Technology), Cloud Computing Specialisation**

If a student selects all 6 papers of Artificial Security Track, he should be awarded the degree **M.Sc. (Information Technology), Security Specialisation**

All other students will be awarded M.Sc. (Information Technology) degree.



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