

UNIVERSITY OF MUMBAI INSTITUTE OF DISTANCE AND OPEN LEARNING (IDOL)



Institute of Distance and Open Learning (IDOL)
University of Mumbai.

SYLLABUS

Semester-I

SNO	Paper
1	Professional Communication Skill
2	Applied Mathematics-I
3	Fundamental of digital Computing
4	Electronics and Communication Technology
5	Introduction to C++ programming

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Semester-II

SNO	Paper
1	Web Technologies
2	Applied Mathematics-II
3	Microprocessors and Microcontrollers
4	Database Management Systems
5	Digital Computer Networks

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Semester-III

SNO	Paper
1	Logic and Discrete Mathematics
2	Computer Graphics
3	Advanced SQL
4	Object Oriented Programming using C++
5	Modern Operating Systems

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Semester-IV

SNO	Paper
1	Software Engineering
2	Multimedia
3	Java and Data Structures
4	Quantitative Techniques
5	Embedded Systems

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Semester-V

SNO	Paper
1	Network Security
2	ASP.NET with C#
3	Software Testing
4	Advanced Java
5	Linux Administration

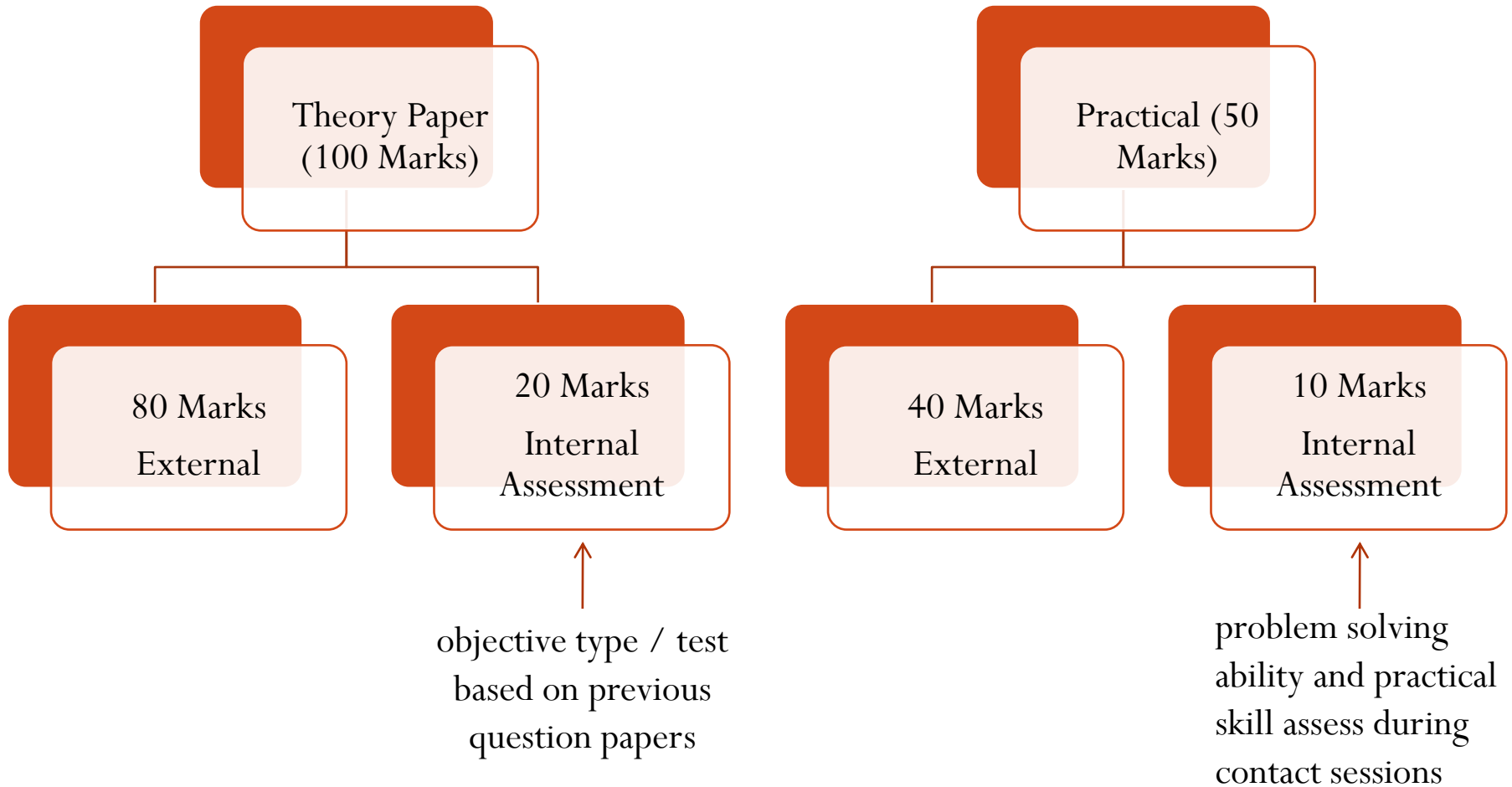
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Semester-VI

SNO	Paper
1	Internet Technologies
2	Digital Signals and Systems
3	Data Warehousing
4	Elective: 1. IPR and Cyber Laws, 2. Project Management
5	Project Report
6	Project Viva-voce

PATTERN

The 80%:20% pattern has been introduced for BSc-IT from the Academic year 2015-2016.
(As per the Circular no.: UG/ICD/2015-2016/137)



Note: There is minimum passing for Internal Assessment.

Standard of Passing:

- In **80:20** scheme of examination, every paper and practical is considered as separate head of passing.
- Minimum passing marks required in every head is **40%** (theory as well as practical).
- To pass the theory examination, student must secure minimum 40 marks out of 100 marks.
- To pass the practical examination, student must secure minimum 20 marks out of 50 marks.
- Project Viva-voce comprises of 100 marks; students are required to secure 40 marks out of 100 marks.
- Project Report comprises of 100 marks; students are required to secure 40 marks out of 100 marks.

Lectures and Practical Hours

- Maximum number of lectures in each subject for F. Y., S. Y. and T. Y. B. Sc. (I. T.) is

Lectures – 20 hours (10 Sessions) and

Practicals – 12 hours (6 Sessions)

NOTE

- The Internal Assessment will be done through MOOC model with the use of one of the Learning Management Systems: Course Networking (www.thecn.com)
- The Sem-1 examination tentative: Last week of January.
- The Sem-2 examination tentative: Last week of April.
- The Sem-3 examination tentative: Last week of January.
- The Sem-4 examination tentative: Last week of April.
- The Sem-5 examination tentative: Last week of December.
- The Sem-6 examination tentative: Last week of April.
- The study material softcopy can be downloaded from this URL (<http://old.mu.ac.in/distance-open-learning/b-sc-study-material/>)
- The following study materials are not available as of now but will be soon available and uploaded on the website.
 1. Quantitative Techniques (Sem-4)
 2. Software Engineering (Sem-4)
 3. Java and Data Structure (Sem-4)
- But we will provide you the best Reference Books, Textual materials and YouTube links for the purpose of your study and examination.
- The previous year's question paper can be downloaded from this URL (<http://old.mu.ac.in/old-question-papers-2/>)

Sr. No.	Course & Eligibility	
1.	B. Sc. [Information Technology] (Three Years)	
	F.Y. B. Sc. (IT)	<p>Students must PASSED HSC (XII std.) with Mathematics & Statistics.</p> <p>(As per the Circular No. UG/67 of 2016/17) and (Ordinance No. 6302 & 6303)</p>
	S.Y. B. Sc. (IT)	<p>Passed in F.Y.B. Sc. IT or ATKT in OR passed three years' diploma from any recognized state and central board students should have passed in all subjects of F.Y.B.Sc. (IT) and failed not more 200 marks from University of Mumbai No. UG/235 of 2005.</p> <p>Sem – III</p> <p>The student is eligible for admission to Semester III if either the student passes Semester I & II</p> <p style="text-align: center;">OR</p> <p>The students fail in combination of Theory and / or practical taken in Semester I or Semester II or together. Where the total marks do not exceed 200.</p> <p>Sem – IV</p> <p>A student is eligible to be admitted to Semester IV irrespective of no. heads of failure in the Third Semester. However, the student has to clear Semester I and II in order to appear for Semester IV examination.</p>

**T.Y. B. Sc.
(IT)**

Passed in all subjects of F. Y. & S.Y. B. Sc. (IT) or equivalent examination of other universities.

Students should have passed in all subjects of FY B. Sc. (IT) and failed not more than 200 marks in SY B.Sc. (IT) from University of Mumbai. No. UG/235 of 2005.

A student is eligible for admission to Semester V if either the student passes Semester III & IV. 5t

OR

The student fails in a combination of Theory and / or practical taken in Semester III or Semester IV or together, where the total marks does not exceed 200.

OR

A student is eligible to be admitted to Semester VI irrespective of no. of heads of failure in the fifth Semester. The results of Semester VI should be kept in abeyance until the students clears Semesters III, IV and V in full.



Thank You