

Solapur University, Solapur

M.Sc. (Computer Science)

Syllabus (Semester – I and II)

(Choice Based Credit System)

With Effect from June 2018-19

7. Structure of the Syllabus – M.Sc. (Computer Science):

Part – I Semester-I

Paper Code	Title of the Paper	Hrs / week	Distribution of Marks for Examination			Credits
			Internal	University	Total	
Hard Core - Theory						
HCT 1.1	DBMS	04	30	70	100	04
HCT 1.2	Data Structures	04	30	70	100	04
HCT 1.3	Object Oriented Programming using C++	04	30	70	100	04
Soft Core – Theory (Any One)						
SCT 1.1	Software Engineering	04	30	70	100	04
SCT 1.2	Operating System	04				
Hard core Lab / Project						
HCP 1.1	Practical based on HCT 1.1	04	15	35	50	02
HCP 1.2	Practical based on HCT 1.2	04	15	35	50	02
HCP 1.3	Practical based on HCT 1.3	04	15	35	50	02
HCP 1.4	Project – I	02	15	35	50	02
	Tutorial	01	-	-	25	01
Total		-	180	420	625	25

Part – I Semester-II

Paper Code	Title of the Paper	Hrs / week	Distribution of Marks for Examination			Credits
			Internal	University	Total	
Hard Core – Theory						
HCT 2.1	Java Programming	04	30	70	100	04
HCT 2.2	Computer Communication Network	04	30	70	100	04
HCT/P 2.3	Communicate in English Confidently	04	20	55	75	03
Soft Core – Theory (Any One)						
SCT 2.1	UML	04	30	70	100	04
SCT 2.2	Software Testing	04				
Open Elective (Any One)						
OET 2.1	Office Automation	04	30	70	100	04
OET 2.2	Linux Operating System	04				
Hard core Lab / Project						
HCP 2.1	Practical based on HCT 2.1	04	15	35	50	02
HCP 2.2	Practical based on HCT 2.2	04	15	35	50	02
HCP 2.3	Project – II	02	15	35	50	02
Open Elective (Any One)						
OEP 2.1	Practical Based on OET 2.1	02	15	35	50	02
OEP 2.2	Practical Based on OET 2.2	02				
Others	Tutorial	01	-	-	25	01
Total		-	180	420	625	25

* Paper is offered only to students of Department of Computer Science, Solapur University, Solapur. Scoring 50% marks is mandatory for successfully completing this semester course.

*HCT/P is mandatory for every student who seeks M.Sc./M.A./M.C.A. degree and has to earn 3 credits each in Sem II & Sem-III. In order to Pass in the above course the students should secure at least 27 Marks for theory and 10 marks for Internal Assessment. However, these credits will not be accumulated for CGPA. In case student fails in these courses he will be declared as fail.

Solapur University, Solapur

M.Sc. (Computer Science)

Part - II

Syllabus (Semester – III and IV)

(Effective from June 2018-19)

(Choice Based Credit System)

M.Sc. (Computer Science) Part – II Semester-III

Paper Code	Title of the Paper	Hrs / week	Distribution of Marks for Examination			Credits
			Internal	University	Total	
Hard Core – Theory						
HCT 3.1	Digital Image Processing	04	30	70	100	04
HCT 3.2	Mobile Computing	04	30	70	100	04
HCT/P 3.3	Technical English Communication Skills	04	20	55	75	03
Soft Core – Theory (Any One)						
SCT 3.1	Artificial Intelligence	04	30	70	100	04
SCT 3.2	Operations Research	04				
SCT 3.3	Finite Automata	04				
Open Elective (Any One)						
OET 3.1	Procedural Programming Language	04	30	70	100	04
OET 3.2	Internet of Things	04				
Hard core Lab / Project						
HCP 3.1	Practical based on HCT 3.1	04	15	35	50	02
HCP 3.2	Practical based on HCT 3.2	04	15	35	50	02
HCP 3.2	Project – III	02	15	35	50	02
Others	Tutorial	02	-	-	25	01
Open Elective (Any One)						
OEP 3.1	Practical based on OET 3.1	02	15	35	50	02
OEP 3.2	Practical based on OET 3.2	02				
Total		-	180	420	625	25

M.Sc. (Computer Science) Part-II Semester-IV

Paper Code	Title of the Paper	Hrs / week	Distribution of Marks for Examination			Credits
			Internal	University	Total	
Hard Core – Theory						
HCT 4.1	.NET Technology	04	30	70	100	04
HCT 4.2	Soft Computing	04	30	70	100	04
HCT 4.3	Data Mining and Warehouse	04	30	70	100	04
Soft Core – Theory (Any One)						
SCT 4.1	Distributed Operating System	04	30	70	100	04
SCT 4.2	Network Security	04				
Hard core Lab / Project						
HCP 4.1	Practical based on HCT 4.1	04	15	35	50	02
HCP 4.2	Practical based on HCT 4.2	04	15	35	50	02
HCP 4.3	Practical based on HCT 4.3	04	15	35	50	02
HCP 4.4	Project – IV	02	15	35	50	02
	Tutorial	01	-	-	25	01
Total		-	180	420	625	25

* Paper is offered only to students of Department of Computer Science, Solapur University, Solapur. Scoring 50% marks is mandatory for successfully completing this semester course.

*HCT/P is mandatory for every student who seeks M.Sc./M.A./M.C.A. degree and has to earn 3 credits each in Sem II & Sem-III. In order to Pass in the above course the students should secure at least 27 Marks for theory and 10 marks for Internal Assessment. However, these credits will not be accumulated for CGPA. In case student fails in these courses he will be declared as fail.