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 /	Distribution of Marks for Examination			0 114			
		week	Internal	University	Total	Credits			
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 /	Distribution	tribution of Marks for Examination		
		week	Internal	University	Total	Credits
	Hard Co	re – The	ory			
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	<mark>20</mark>	<mark>55</mark>	<mark>75</mark>	03
	Soft Core - T	heory (A	ny One)			1
SCT 2.1	UML	04	30	70	100	04
SCT 2.2	Software Testing	04	30			
	Open Elect	ive (Any	One)			
OET 2.1	Office Automation	04	30	70	100	04
OET 2.2	Linux Operating System	04				
	Hard core	Lab / Pı	oject			
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 Elect	ive (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		33		
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 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 /	Distribution of Marks for Examination			0 114
		week	Internal	University	Total	Credits
	Hard C	ore – Theo	ry			
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	<mark>55</mark>	<mark>75</mark>	03
	Soft Core - '	Theory (A	ny One)			•
SCT 3.1	Artificial Intelligence	04	30	70	100	04
SCT 3.2	Operations Research	04				
SCT 3.3	Finite Automata	04				
	Open Elec	tive (Any	One)			
OET 3.1	Procedural Programming Language	04	- 30	70	100	04
OET 3.2	Internet of Things	04				
	Hard core	Lab / Pro	oject			
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 Elec	tive (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		Hrs /	Distribution	of Marks for Exar					
Code	Title of the Paper	week	Internal	University	Total	Credits			
	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			

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