

BHARATHIAR UNIVERSITY :: COIMBATORE 641 046

M. Sc. Computer Science (Affiliated Colleges)
(Effective For the candidates admitted during the academic year -2023 – 2024 & onwards)

REVISED SCHEME OF EXAMINATIONS – CBCS PATTERN

Course Code	Title of the Course	Credits	Hours		Maximum Marks		
			Theory	Practical	CIA	ESE	Total
FIRST SEMESTER							
13A	Paper I : Analysis & Design of Algorithms	4	5		25	75	100
13B	Paper II : Object Oriented Analysis and Design & C++	4	5		25	75	100
13C	Paper III : Python Programming	4	5		25	75	100
13D	Paper IV : Advanced Software Engineering	4	5		25	75	100
13P	Practical I : Algorithm and OOPS Lab	4		5	25	75	100
13Q	Practical II : Python Programming Lab	4		5	25	75	100
Total		24	20	10			
SECOND SEMESTER							
23A	Paper V : Data Mining and Warehousing	4	4		25	75	100
23B	Paper VI Advanced Operating Systems	4	4		25	75	100
23C	Paper VII Advanced Java Programming	4	4		25	75	100
23D	Paper VIII : Artificial Intelligence & Machine Learning	4	4		25	75	100
2EA/2EB /2EC/2ED	Elective – I Multimedia and Its Applications / Embedded Systems / Internet of Things / Critical Thinking, Design Thinking and Problem Solving	4	4		25	75	100
23P	Practical III: Data Mining Lab using R	4		5	25	75	100
23Q	Practical IV: Advanced Java Programming Lab	4		5	25	75	100
Total		28	20	10			

THIRD SEMESTER							
33A	Paper IX : Digital Image Processing	4	4		25	75	100
33B	Paper X: Cloud Computing	4	4		25	75	100
33C	Paper XI: Network Security and Cryptography	4	4		25	75	100
33D	Paper XII : Data Science & Analytics	4	4		25	75	100
3EA / 3EB / 3EC / 3ED	Elective – II Mobile Computing / Block Chain Technology / Web Services / Robotic Process Automation for Business	4	4		25	75	100
33P	Practical V: Digital Image Processing Lab using MATLAB	4		4	25	75	100
33Q	Practical VI : Cloud Computing Lab	4		4	25	75	100
33R	Practical VII : Web Application development & hosting	2		2	25	25	50
Total		30	20	10			
FOURTH SEMESTER							
47V	Project work and Viva-voce	8			50	150*	200
Total		8					200
Grand Total		90					2250
ONLINE COURSES							
1.	#SWAYAM / MOOC	2					
2.	#Job oriented Certificate course	2					

* Project Evaluation – 100 marks & Viva Voce – 50 marks in ESE

During II or III Semester (Optional)

ELECTIVE – I

- 1.1. Multimedia and its Applications
- 1.2. Embedded Systems
- 1.3. Internet of Things
- 1.4. Critical Thinking, Design Thinking and Problem Solving

ELECTIVE – II

- 2.1. Mobile Computing
- 2.2. Block Chain Technology
- 2.3. Web Services
- 2.4. Robotic Process Automation for Business