

M.Sc. COMPUTER SCIENCE COURSE STRUCTURE

YEAR – I SEMESTER – I

Part	Subject code	List of Course	Credits	Hrs.	Int.	Ext.	Total
Part A	436C1A	Advanced Data Structure and Algorithms	4	5	25	75	100
Part A	436C1B	Advanced Python Programming	4	5	25	75	100
Part A	436C1C	Data Structure and Algorithms Practical	3	5	40	60	100
Part A	436C1D	Advanced Python Programming Practical	3	5	40	60	100
Part B	436E1A	Cloud Computing	3	5	25	75	100
	436E1B	Internet of Things					
	436E1C	Advanced Computer Architecture					
Part B	436E1D	Principles of Compiler Design	3	5	40	60	100
	436E1E	Natural Language Processing					
	436E1F	Distributed Database Systems					
			20	30			

YEAR – I SEMESTER – II

Part	Subject code	List of Course	Credits	Hrs.	Int.	Ext.	Total
Part A	436C2A	Data Mining and Warehousing	4	5	25	75	100
Part A	436C2B	Web Technology and Advanced Java	4	5	25	75	100
Part A	436C2C	Data Mining and Warehousing Practical	4	5	40	60	100
Part A	436C2D	Web Technology and Advanced Java Practical	3	4	40	60	100
Part B	436E2A	Artificial Intelligence	3	5	25	75	100
	436E2B	Software Development Technologies					

	436E2C	Artificial Neural Networks and Deep Learning					
Part B	436E2D	Computer Vision	3	4	25	75	100
	436E2E	Agile Software Engineering					
	436E2F	Human Computer Interaction					
Part B	436S2A	Fundamentals of Human Rights	2	2	25	75	100
			23	30			

YEAR – II SEMESTER – III

Part	Subject code	List of Course	Credits	Hrs.	Int.	Ext.	Total
Part A	536C3A	Data Science and Analytics	4	4	25	75	100
Part A	536C3B	Machine Learning	4	5	25	75	100
Part A	536C3C	Theory of Computation	3	5	25	75	100
Part A	536C3D	Data Science and Analytics Practical	3	5	40	60	100
Part A	536C3E	Machine Learning Practical	3	5	40	60	100
Part B	536E3A	Network Security	3	4	25	75	100
	536E3B	Cryptography					
	536E3C	Parallel and Distributed Computing					
Part B	536S3A	Cyber Security	2	2	25	75	100
Part B	536S3B	Internship Industrial Activity	2			100	100
			24	30			

YEAR – II SEMESTER – IV

Part	Subject code	List of Course	Credits	Hrs.	Int.	Ext.	Total
Part A	536C4A	Theory Digital Image Processing	4	5	25	75	100
Part A	536C4B	Project with Viva voce	14	18	20	60+20	100
Part B	536E4A	Robotic Process Automation for Business	3	4	25	75	100
	536E4B	Block Chain Technology					
	536E4C	Embedded Systems					
Part B	536S4A	UML Practical	2	3	40	60	100
	536S4B	Documentation and Interview skills for Software Engineers					
Part C	536V4A	Extension Activity	1				
			24	30			

