

Annexure 1

M.Sc. (Information Technology)	Credit	M.Sc. (Information Technology)	Credit
Subjects		Subjects	
First Semester	23	Sixth Semester	22
Communication Skills in English	3	Software Engineering	3
Basic Mathematics	6	Advanced Mobile Application Development	4
Principles of Management	3	Building Web Services and Restful API	5
Computer Fundamentals	3	Advance Python for Data Analysis	3
Fundamentals of C	4	Software Quality Assurance	4
Web Fundamentals	4	(E1) Basics of Data Science	3
Second Semester	22	(E1) Data Visualization	
Environmental Studies	2	Seventh Semester	21
Basic Statistics and Discrete Mathematics	6	Design Pattern	3
Digital Electronics	4	Web Development Using Advance Java, Spring Boot & JDBC	5
Fundamentals of DBMS	5	Mobile Application Development Project	2
Advanced Programming in C	4	Design and Analysis of Algorithms	5
Seminar	1	(Elective 2) Introduction to IoT and Big Data	
Third Semester	22	(Elective 2) Big Data Analytics with Hadoop	3
Universal Human values	2	(Elective 3) SEO & Digital Media Marketing	3
Data structures	4	(Elective 3) Image Processing	
Advanced Database Management System	4	Eighth Semester	21
Object Oriented Programming with JAVA	5	Basics of NoSQL & MONGO DB	4
PHP and MySQL	5	Data Warehouse and Data Mining	4
UI/UX Design	2	Advanced Web Application Development Project for e-commerce	2
Fourth Semester	23	Machine Learning	5
Indian Constitution	2	Introduction to Cloud Computing	3
Fundamentals of Operating System	4	(Elective 4) Cryptography	3

Web Programming with PHP and LARAVEL	5	(Elective 4) Computer Vision	
Python Programming	5	Ninth Semester	21
Computer Networks	3	Dissertation / Technical Writing	4
Management Information System	4	DevOps Practices and Tools	5
Fifth Semester	22	Software Project Management	3
Mobile Application Development	4	Deep Learning with Artificial Neural Networks	6
Web Development for E-commerce	4	(Elective 5) Blockchain Technology	3
Cyber Security	4	(Elective 5) Virtual Reality and Augmented Reality	
Web Application Development Project II	2	(Elective 5) Agile Software Development Methodologies	
Advance Java	4	Tenth Semester	15
(Elective 2) Web Development Using Python and DJANGO	4	Internship / Software Project Development	15
(Elective 2) Web Development using ASP.Net			
Total Credits			212