18. Structure of the Programme and detail syllabus of each course:

Sr. No.	Course Title	Course Code	CP	EXT	INT
Semester I					
1	Python Programming	IT11	3	50	25
2	Data Structure and Algorithms	IT12	3	50	25
3	Advanced DBMS	IT13	3	50	25
4	Business Statistics	MT11	3	50	25
5	Software Engineering and Project Management	IT14	3	50	25
6	**Elective- I (Select any one from following)**	EC11			
	Fundamentals of Cloud Computing	EC11-1			
	Web Development	EC11-2	3	50	25
	Fundamental of Data Science	EC11-3			
	Introduction to Cyber Security	EC11-4			
*Practical					
7	Practical based on Python and DS	IT11L	3		50
8	Mini Project	ITC11	3		50
Soft Skills and IKS					
9	Soft Skills – I	SS11	1		25
10	IKS	IK11	1		25
			26	**300**	**300**

The "Semester I" spans the full table as a section header. Below is Semester II.

Sr. No.	Course Title	Course Code	CP	EXT	INT
Semester II					
1	Java Programming	IT21	3	50	25
2	Optimization Techniques	MT21	3	50	25
3	Software Testing and Quality Assurance	IT22	3	50	25
4	Research Methodology	RM21	3	50	25
5	**Elective- II (Select any one from following)**	EC21			
	Cloud Computing Management and Security	EC21-1			
	JavaScript	EC21-2	3	50	25
	Machine Learning Techniques	EC21-3			
	Essentials of Cyber Security	EC21-4			
6	**Elective- III (Select any one from following)**	EC22			
	Essentials of Cloud Computing and Security	EC22-1			
	Advance Web Development	EC22-2	3	50	25
	Power BI	EC22-3			
	Essentials of Information Security	EC22-4			
*Practical					
7	Practical based on Java	IT21L	3		50
8	Mini Project	ITC21	3		50
Soft Skills and IKS					
9	Soft Skills – II	SS21	1		25
10	IKS	IK21	1		25
			26	**300**	**300**

		Semester III			
Sr. No.	**Course Title**	**Course Code**	**CP**	**EXT**	**INT**
1	Organizational Behaviour	IT31	3	50	25
2	Design and Analysis of Algorithm	IT32	3	50	25
3	**Elective- IV (Select any one from following)**	EC31			
	Cloud API's and Services	EC31-1	3	50	25
	Mobile Application Development	EC31-2			
	Tableau	EC31-3			
	End -Point Security	EC31-4			
4	**Elective- V (Select any one from following)**	EC32			
	Cloud Migration and Management	EC32-1	3	50	25
	MERN Stack Development	EC32-2			
	Deep Learning	EC32-3			
	Ethical Hacking	EC32-4			
5	**Elective- VI (Select any one from following)**	EC33			
	Enterprise Resource Planning (ERP)	EC33-1	3	50	25
	E-Commerce	EC33-2			
	Social media Marketing	EC33-3			
	Innovation and Entrepreneurship Development	EC33-4			
	***Practical**				
6	Practical based on Electives IV and V	IT31L	3		50
7	Research Project	RP31	6		100
	Soft Skills				
8	Soft Skills- III	SS31	1		25
			25	**250**	**300**

		Semester IV			
Sr. No.	**Course Title**	**Course Code**	**CP**	**EXT**	**INT**
1	Internship/Project Work (FP/OJT)	IT41	12	300	150
2	MOOC- I	MC41	3		50
3	MOOC- II	MC42	3		50
			18	**300**	**250**

Semester	**Credit Points**	**UE**	**IE**
Semester I	26	300	300
Semester II	26	300	300
Semester III	25	250	300
Semester IV	18	300	250
Total	**95**	**1150**	**1150**
	Total Marks	**2300**	