Code	Nomenclature	Code	Nomenclature		
PCC	Program Core Course	L:T:P	Lecture : Tutorial : Practical		
PEC	Program Elective Course	ESE	External Semester Evaluation		
OE	Open Elective	MSE	Mid Semester Evaluation		
SEM	Seminar	IA	Internal Assessment (Assignment/Paper Review/ Viva voce/Punctuality)		
DW	Dissertation Work	ISE	Internal Semester Evaluation		
AUC	Audit Course	ISE=MSE (35 marks) + IA (15 marks)			

	1st Semester									
S. Course Course		Course	Course Name	Hours			Credits	Marks		
No.	Type	Code	Course Ivaine	L	T	P	Credits	ISE	ESE	Total
1	PCC	MCSE1121	Mathematical Foundations of Computer Science	3	1	ı	3	50	50	100
2	PCC	MCSE1221	Advanced Computer Networks	3	-	-	3	50	50	100
3	PCC	MCSE1321	Advanced Data Structures and Algorithms	3	1	1	3	50	50	100
4	PEC	MCSE1421	Advanced Operating System	3	1	ı	3	50	50	100
5	PEC	PEC1XX21	Program Elective-I	3	-	2	4	50	50	100
6	PCC	MCSE1521	Research Methodology and IPR	2	1	-	3	50	50	100
7	PCC	MCSE1221L	Advanced Computer Networks Lab	-	-	2	1	50	50	100
8	PCC	MCSE1321L	Advanced Data Structures and Algorithms Lab.	-	-	2	1	50	50	100
			Total:		24		21	400	400	800

			2 nd Semester							
S.	Course	Course	Common Norma		Hours		C 1'4	Marks		
No.	Type	Code	Course Name	L	T	P	Credits	ISE	ESE	Total
1	PCC	MCSE2121	Information Security	3	-	-	3	50	50	100
2	PCC	MCSE2221	High Performance Computing Architecture	3	1	2	4	50	50	100
3	PCC	MCSE2321	Machine Learning	3	-	-	3	50	50	100
4	PEC	PEC2XX21	Program Elective-II	3	-	2	4	50	50	100
5	PEC	PEC2XX21	Program Elective-III	3	-	2	4	50	50	100
6	PCC	MCSE2121L	Information Security Lab	-	-	2	1	50	50	100
8	PCC	MCSE2321L	Machine Learning Lab	-	-	2	1	50	50	100
			Tota	l:	25		20	350	350	700

	3 rd Semester									
S.	Course	Course Name		Hours			~	Marks		
No.	Type		L	Т	P	Credits	ISE	ESE	Total	
1	PCC	MCSE3121	Soft Computing	3	-	-	3	50	50	100
2	PEC	PEC3XX21	Program Elective-IV	3	-	2	4	50	50	100
3	PEC	PEC3XX21	Program Elective-V	3	-	2	4	50	50	100
4	OE	OE3 X 21	Open Elective-I	2	-	2	3	50	50	100
5	DW	MCSE3221	Dissertation Phase-I	-	2	6	5	50	100	150
6	PCC	MCSE3121L	Soft Computing Lab	-	-	2	1	50	50	100
7	SEM	MCSE3321	Technical Seminar	-	-	-	1	50	-	50
8	AUC	AU3X21	Audit Course	2	-	-	-	50	-	50
		·	Total		29		21	400	350	750

	4 th Semester										
S. Course Course Course Name		Course Name Hours Cr		Hours		Hours Credits		Marks			
No.	Type	Code	Course Name		L	T	P	Credits	ISE	ESE	Total
1	DW	MCSE4121	Dissertation Phase-II			3	20	13	100	200	300
				Total:		23		13	100	200	300

Total Credits: 75

Elective-I (PEC1XX21)				
Course Code	Course Title			
PEC11121	Data Warehousing and Multi-Dimensional Modelling			
PEC11221	Digital Image Processing			
PEC11321	Software Architecture			
PEC11421	Embedded Systems			
PEC11521	Wireless and Mobile Networks			

Elective-II and Elective-III (PEC2XX21)			
Course Code	Course Title		
PEC21121	Graph Theory		
PEC21221	Sensor Networks and IOT		
PEC21321	Advanced Computer Graphics		
PEC21421	Software Metrics and Quality Management		
PEC21521	Data Science with Python		
PEC21621	Pattern Recognition		
PEC21721	Multimedia Technology		
PEC21821	Cloud Computing		
PEC21921	Optimization Techniques		
PEC22021	Big Data Analytics		
PEC22121	Logic Programming		
PEC22221	Secure Software Design and Enterprise Computing		

	Elective-IV and Elective-V (PEC3XX21)			
Course Code	Course Title			
PEC31121	Software Verification and Validation Testing			
PEC31221	IOT Application and Communication Protocols			
PEC31321	Deep Learning			
PEC31421	Software Defined Networks			
PEC31521	Big Data Processing Frameworks			
PEC31621	Natural Language Processing			
PEC31721	Block Chain Technology			
PEC31821	Parallel Programming and Models			
PEC31921	Social Network Data Analytics			
PEC32021	Agile Software Development			
PEC32121	Special Topics in Computer Science			
PEC32221	MOOC			

	Open Elective			
Course Code	Course Title			
OE3121	Python Programming			
OE3221	E-Commerce and Cyber Laws			
OE3321	Business Analytics			

	Audit Course (contents as per AICTE model curriculum)
Course Code	Course Title
AU3121	English for research paper writing
AU3221	Value Education
AU3321	Constitution of India
AU3421	Disaster Management