Program Code	:	XXX M.Tech. (Instrumentation and Signal Processing)
Department	:	Department of Electrical Engineering
Year	:	Ι
Model	:	2

	Teaching Scheme							Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical
		Semester-I (Autumn)							
1.	EEC-531	Intelligent Sensors and Instrumentation	PCC	4	3	0	2	3	0
2.	EEC-533	Advances in Signal and Image Processing	PCC	4	3	0	2	3	0
3.	EEC-535	Concepts of Artificial Intelligence and Machine Learning	PCC	4	3	1	0	3	0
4.	EEC-537	Data Science and Instrumentation	PCC	4	3	0	2	3	0
5.		Social Science Course	SSC	2	-	-	-	-	-
		Total		18					
		Semester-II (Spring)							
1.		Program Elective-I	PEC	4	-	-	-	-	-
2.		Program Elective-II	PEC	4	-	-	-	-	-
3.		Program Elective-III	PEC	4	-	-	-	-	-
4.		Program Elective-IV	PEC	4	-	-	-	-	-
5.		Science, Technology, and Advanced Research-tools	STAR	3	-	-	-	-	-
6.	EEC-700	Seminar	SEM	2	-	-	-	-	-
		Total		21					

Program Code	:	XXX M.Tech. (Instrumentation and Signal Processing)
Department	:	Department of Electrical Engineering
Year	:	II
Model	:	2

	Teaching Scheme							Exam Duration	
S.No.	Subject Code Course Title Code							Theory	Practical
		Semester-I (Autumn)							
1.	EEC-691	Internship Social Activity	ISA	3	-	-	-	-	-
2.	EEC-701A	Thesis Stage-I	THESIS	10	-	-	-	-	-
		Total		13					
		Semester-II (Spring)							
1.	EEC-701B	Thesis Stage-II	THESIS	14	-	-	-	-	-
		Total		14					

Summary								
Semester	1	2	3	4				
Semester-wise Total Credits	18	21	13	14				
Total Credits 66								

M.Tech. (Instrumentation and Signal Processing)

Program Elective Courses

	Teaching Scheme							Exa Dura	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical
1.	EEL-514	AI Applications in Signal Processing	PEC	4	3	1	0	3	0
2.	EEL-515	AI Applications in Image Processing	PEC	4	3	1	0	3	0
3.	EEL-516	Bioelectric Signals and Processing	PEC	4	3	1	0	3	0
4.	EEL-517	FPGA Implementation of Signal Processing Systems	PEC	4	3	1	0	3	0
5.	EEL-518	Medical Robotics	PEC	4	3	1	0	3	0
6.	EEL-519	Introduction to AI and ML tools	PEC	4	3	1	0	3	0

Science, Technology, and Advanced Research-tools Basket

	Teaching Scheme						Contact Hours/Week			
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical	
1.	EET-503	Medical Image Processing	STAR	3	2	0	2	3	0	

Program Code	:	XXX Master of Science (by Research) in Instrumentation and Signal Processing
Department	:	Department of Electrical Engineering
Year	:	Ι
Model	:	3

	Teaching Scheme							Exam Duration	
S.No.	Subject Code			L	Т	Р	Theory	Practical	
		Semester-I (Autumn)				1			<u></u>
1.	EEC-531	Intelligent Sensors and Instrumentation	PCC	4	3	0	2	3	0
2.	EEC-533	Advances in Signal and Image Processing	PCC	4	3	0	2	3	0
3.	EEC-535	Concepts of Artificial Intelligence and Machine Learning	PCC	4	3	1	0	3	0
4.	EEC-537	Data Science and Instrumentation	PCC	4	3	0	2	3	0
5.		Social Science Course	SSC	2	-	-	-	-	-
		Total		18					
		Semester-II (Spring)							
1.		Program Elective-I	PEC	4	-	-	-	-	-
2.	EEC-751A	Thesis Stage-I	THESIS	14	-	-	-	-	-
		Total		18					

Program Code	:	XXX Master of Science (by Research) in Instrumentation and Signal Processing
Department	:	Department of Electrical Engineering
Year	:	II
Model	:	3

	Teaching Scheme							Exam Duration	
S.No.	Subject Code	Credits	L	Т	Р	Theory	Practical		
	1	Semester-I (Autumn)							
1.	EEC-751B	Thesis Stage-II	THESIS	15	-	-	-	-	-
		Total		15					
		Semester-II (Spring)							
1.	EEC-751C	Thesis Stage-III	THESIS	16	-	-	-	-	-
		Total		16					

Summary								
Semester	1	2	3	4				
Semester-wise Total Credits	18	18	15	16				
Total Credits		67	7					

Master of Science (by Research) in Instrumentation and Signal Processing

Program Elective Courses

Teaching Scheme					Contact Hours/Week			Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	Р	Theory	Practical
1.	EEL-514	AI Applications in Signal Processing	PEC	4	3	1	0	3	0
2.	EEL-515	AI Applications in Image Processing	PEC	4	3	1	0	3	0
3.	EEL-516	Bioelectric Signals and Processing	PEC	4	3	1	0	3	0
4.	EEL-517	FPGA Implementation of Signal Processing Systems	PEC	4	3	1	0	3	0
5.	EEL-518	Medical Robotics	PEC	4	3	1	0	3	0
6.	EEL-519	Introduction to AI and ML tools	PEC	4	3	1	0	3	0