Program Code : XXX M.Tech. (Instrumentation and Signal Processing)

Department : **Department of Electrical Engineering** 

Year : I Model : 2

	Teaching Scheme					Contact Hours/Week			am ation	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	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					Contact Hours/Week			am ation
S.No.	Subject Code	Course Title	Subject Area	Credits	L T P		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	-	ı	-	1	-
		Total		14					

Summary						
Semester	1	2	3	4		
Semester-wise Total Credits	18	21	13	14		
Total Credits		60	5			

## M.Tech. (Instrumentation and Signal Processing)

## **Program Elective Courses**

	Teaching Scheme					Contact Hours/Week			am ation
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	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 Applications	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			Exam Duration		
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	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 : I Model : 3

	Teaching Scheme					Contact Hours/Week			am ation
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	P	Theory	Practical
		Semester-I (Autumn)	I		1				
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	1	-	-	-	_
		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					Contact Hours/Week			am ation
S.No.	Subject Code	Conce Litle  Subject Area Area Credits		L	T	P	Theory	Practical	
	1	Semester-I (Autumn)			1				
1.	EEC-751B	Thesis Stage-II	THESIS	15	-	-	-	-	-
		Total		15					
		Semester-II (Spring)							
1.	EEC-751C	Thesis Stage-III	THESIS	16	-	ı	ı	ı	-
		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			am ation
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	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 Applications	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