

**2nd Year: Electronics Instrumentation & Control
III Semester**

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	3EI2-01	BSC	Advanced Engineering Mathematics-I	3	0	0	30	120	150	3
2	3EI1-02/ 3EI1-03	HSMC	Technical Communication/Managerial Economics and Financial Accounting	2	0	0	20	80	100	2
3	3EI4-04	PCC	Digital System Design	3	0	0	30	120	150	3
4	3EI4-05	PCC	Signal & Systems	3	0	0	30	120	150	3
5	3EI4-06	PCC	Network Theory	3	1	0	40	160	200	4
6	3EI4-07	PCC	Electronics Devices	3	1	0	40	160	200	4
7	3EI4-21	PCC	Electronics Devices Lab	0	0	2	30	20	50	1
8	3EI4-22	PCC	Digital System Design Lab	0	0	2	30	20	50	1
9	3EI4-23	PCC	Signal Processing Lab	0	0	2	30	20	50	1
10	3EI3-24	ESC	Computer Programming Lab-I	0	0	2	30	20	50	1
11	3EI7-30	Training Exam	Training seminar						50	1
12	3EI8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	17	2	8			1225	24.5

**2nd Year: Electronics Instrumentation & Control
IV Semester**

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	4EI2-01	BSC	Advanced Engineering Mathematics-II	3	0	0	30	120	150	3
2	4EI1-03/ 4EI1-02	HSMC	Managerial Economics and Financial Accounting/ Technical Communication	2	0	0	10	40	50	1
3	4EI4-04	PCC	Analog Circuits	3	1	0	40	160	200	4
4	4EI4-05	PCC	Microcontrollers	3	0	0	30	120	150	3
5	4EI3-06	ESC	Measurement & Instrumentation	3	0	0	30	120	150	3
6	4EI4-07	PCC	Analog and Digital Communication	3	1	0	60	140	200	4
7	4EI4-21	PCC	Analog and Digital Communication Lab	0	0	3	45	30	75	1.5
8	4EI4-22	PCC	Analog Circuits Lab	0	0	3	45	30	75	1.5
9	4EI4-23	PCC	Microcontrollers Lab	0	0	2	30	20	50	1
10	4EI4-24	PCC	Measurement & Instrumentation Lab	0	0	2	30	20	50	1
11	4EI18-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	17	2	10			1175	23.5

**3rd Year: Electronics Instrumentation & Control
V Semester**

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	5EI3-01	ESC	Digital Signal Processing	3	0	0	30	120	150	3
2	5EI4-02	PCC	Sensors And Transducers	3	0	0	30	120	150	3
3	5EI4-03	PCC	Control system I	3	0	0	30	120	150	3
4	5EI4-04	PCC	Biomedical Instrumentation	3	0	0	30	120	150	3
5	5EI4-05	PCC	Industrial Instrumentation	3	0	0	30	120	150	3
6		PEC	Program Elective-1	3	0	0	20	80	100	2
7	5EI4-21	PCC	Transducer Lab	0	0	2	30	20	50	1
8	5EI4-22	PCC	Biomedical Instrumentation Lab	0	0	2	30	20	50	1
9	5EI4-23	PCC	Control Lab	0	0	2	30	20	50	1
10	5EI7-30	Training Exam	Training seminar						125	2.5
11	5EI8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	18	0	6			1150	23.0

**3rd Year: Electronics Instrumentation & Control
VI Semester**

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	6EI2-01	PCC	Power Electronics	3	0	0	30	120	150	3
2	6EI3-02	ESC	Optical Instrumentation	3	0	0	30	120	150	3
3	6EI4-03	PCC	Control System II	3	0	0	30	120	150	3
4	6EI4-04	PCC	Process Control System	3	0	0	30	120	150	3
5	6EI4-05	PCC	Neural Networks And Fuzzy Logic Control	3	0	0	30	120	150	3
6		PEC	Program Elective-2	3	0	0	30	120	150	3
7	6EI4-21	PCC	Electronics Instrumentation Lab	0	0	3	45	30	75	1.5
8	6EI4-22	PCC	Control System Simulation Lab	0	0	2	30	20	50	1
9	6EI4-23	PCC	Process Control Lab	0	0	3	45	30	75	1.5
10	6EI4-24	PCC	Power Electronics Lab	0	0	2	30	20	50	1
11	6EI8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
			TOTAL	18	0	10			1175	23.5



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4th Year: Electronics Instrumentation & Control VII Semester

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1	7EI4-01	PCC	Distributed Control System	2	0	0	20	80	100	2
2	7EI4-02	PCC	Nonlinear Control System	2	0	0	20	80	100	2
3	7EI6-11	OE	Open Elective-1	3	0	0	30	120	150	3
4		PEC	Program Elective-3	2	0	0	20	80	100	2
5	7EI4-21	PCC	Real Time Control Lab	0	0	2	30	20	50	1
6	7EI7-40	Seminar	Seminar	0	0	4	60	40	100	2
7	7EI7-30	Training Exam	Training Seminar						125	2.5
8	7EI8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
9	7EI9	Mandatory Course								Non Credit
			TOTAL	9	0	6			750	15

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4th Year: Electronics Instrumentation & Control VIII Semester

Sr. No.	Course Code	Category	Course Title	Hours			Marks			Credits
				L	T	P	IA	ETE	Total	
1		PEC	Program Elective-4	2	0	0	20	80	100	2
2		PEC	Program Elective-5	3	0	0	30	120	150	3
3	8EI6-11	OE	Open Elective-2	3	0	0	30	120	150	3
4	8EI7-50		Project	0	0	4	210	140	350	7
5	8EC8-00	SODECA	Social Outreach, Discipline & Extra Curricular Activities						25	0.5
6	8EC9	Mandatory Course								Non Credit
			TOTAL	8	0	4			775	15.5

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PROGRAM ELECTIVE COURSE(S)			
Sr. No	Subject Code	Title	Program Elective/ Semester
1	5EI5-11	Control System Component	Program Elective-1/V
2	5EI5-12	Computer Network	
3	5EI5-13	Probability theory & Stochastic process	
4	6EI5-11	Control System Design	Program Elective-2/VI
5	6EI5-12	Embedded System Design	
6	6EI5-13	Robotics	
7	7EI5-11	Digital Image And Video Processing	Program Elective-3/VII
8	7EI5-12	Network Control System	
9	7EI5-13	Analytical & Environmental Instrumentation	
10	8EI5-11	MEMS & Nano Technology	Program Elective-4, Program Elective-5/VIII
11	8EI5-12	Fault Detection & Diagnosis	
12	8EI5-13	Software Design Tools For Sensing And Control	
13	8EI5-14	Artificial Intelligence And Expert Systems	
14	8EI5-15	Process Modelling & Optimization	
Open ELECTIVE COURSE(S) for Other Departments			
Sr. No	Subject Code	Title	Program Elective/ Semester
1	7EI6-01	Distributed Control System	Open Elective-1/VII
2	7EI6-02	Sensors And Transducer	



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	7EI6-03	Biomedical Instrumentation	Open Elective-2/VIII
3	7EI6-04	Industrial Instrumentation	
4	8EI6-01	Process Control System	
5	8EI6-02	Optical Instrumentation	
6	8EI6-03	Measurement And Instrumentation	
7	8EI6-04	Neural Network And Fuzzy Logic Controller	

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