

Rajasthan Technical University, KOTA  
B.Tech. (Effective from 13-14)

BRANCH CODE	EI	EI					
Course Code	ELECTRONIC INSTRUMENTATION AND CONTROL ENGG	Hrs. / Week					
SEMESTER III	Title	L	T	P	IA	Exam	Total
3EI1A	Electronic Devices & Circuits	3	0		20	80	100
3EI2A	Data Structures & Algorithms	3	0		20	80	100
3EI3A	Digital Electronics	3	0		20	80	100
3EI4A	Circuit Analysis & Synthesis	3	1		20	80	100
3EI5A	Electromagnetic Properties Of Materials	3	0		20	80	100
3EI6A	Advanced Engineering Mathematics-I	3	1		20	80	100
	<b>Total</b>						<b>600</b>
3EI7A	Electronic Instrumentation Workshop			2	45	30	75
3EI8A	Computer Programming Lab-I			2	45	40	75
3EI9A	Electronic Device Lab			2	45	40	75
3EI10A	Digital Electronics Lab			2	45	30	75
3EI11A	Business Entrepreneurship			2	30	20	50
3EIDCA	Discipline & Extra Curricular Activity						50
	<b>Total</b>						<b>400</b>
	<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>10</b>			<b>1000</b>

BRANCH CODE	EI	EI					
Course Code	ELECTRONIC INSTRUMENTATION AND CONTROL ENGG	Hrs. / Week					
SEMESTER - IV	Title	L	T	P	IA	Exam	Total
4EI1A	Analog Electronics	3	0		20	80	100
4EI2A	Control System I	3	1		20	80	100
4EI3A	Electrical Measurements	3	0		20	80	100
4EI4A	Sensors and Transducers	3	0		20	80	100
4EI5A	Analog Communication	3	1		20	80	100
4EI6A	Electrical Technology	3	0		20	80	100
							<b>600</b>
4EI7A	Electrical Engineering Lab			3	60	40	100
4EI8A	Analog Electronics Lab			3	60	40	100
4EI9A	Measurement & Instrumentation Lab			2	60	40	100
4EI10A	Humanities & Social Sciences			2	30	20	50
4EIDCA	Discipline & Extra Curricular Activity						50
	<b>Total</b>						<b>400</b>
	<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>10</b>			<b>1000</b>

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Course Code	ELECTRONIC INSTRUMENTATION AND CONTROL ENGG	Hrs. / Week					
SEMESTER - V	Title	L	T	P	IA	Exam	Total
5EI1A	Signals & Systems	3	1		20	80	100
5EI2A	Linear Integrated Circuits	3	0		20	80	100
5EI3A	Control System II	3	0		20	80	100
5EI4A	Electronic Measurement & Instrumentation	3	1		20	80	100
5EI5A	Microprocessors	3	0		20	80	100
5EI6A	Elective (any one of the following)						
5EI6.1A	Optimization Techniques	3	0		20	80	100
5EI6.2A	Computer Oriented Numerical & Statistical Methods						
5EI6.3A	Digital Communication						
	<b>Total</b>						<b>600</b>
5EI7A	Computer Programming Lab-II			2	45	30	75
5EI8A	Control Lab			2	45	30	75
5EI9A	Microprocessor Lab			2	45	30	75
5EI10A	Transducer Lab			2	45	30	75
5EI11A	Personality Development & General Aptitude			2	30	20	50
5EIDCA	Discipline & Extra Curricular Activity						50
	<b>Total</b>						<b>400</b>
	<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>10</b>			<b>1000</b>

BRANCH CODE	EI						
Course Code	ELECTRONIC INSTRUMENTATION AND CONTROL ENGG	Hrs. / Week					
SEMESTER - VI	Title	L	T	P	IA	Exam	Total
6EI1A	Process Control Systems	3	1		20	80	100
6EI2A	Fibre Optics & Instrumentation	3	0		20	80	100
6EI3A	Industrial Measurements	3	0		20	80	100
6EI4A	Biomedical Instrumentation	3	0		20	80	100
6EI5A	Microcontroller & Embedded System	3	1		20	80	100
6EI6A	Elective (any one of the following)						
6EI6.1A	Control System Components	3	0		20	80	100
6EI6.2A	Robotics						
6EI6.3A	Random Variables and Stochastic Processes						
	<b>Total</b>						<b>600</b>
6EI7A	Microprocessor & Microcontroller Lab			2	45	30	75
6EI8A	Electronic Instrumentation Lab			2	45	20	75
6EI9A	Control System Simulation Lab-I			2	45	30	75
6EI10A	Process Control Lab			2	45	30	75
6EI11A	Professional Ethics and Disaster Management			2	30	20	50
6EIDCA	Discipline & Extra Curricular Activity						50
	<b>Total</b>						<b>400</b>
	<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>10</b>			<b>1000</b>

BRANCH CODE	EI						
Course Code	ELECTRONIC INSTRUMENTATION AND CONTROL ENGG	Hrs. / Week					
SEMESTER - VII		L	T	P	IA	Exam	Total
7EI1A	Neural Networks and Fuzzy Logic Control	3	0		20	80	100
7EI2A	Digital Signal Processing	3	1		20	80	100
7EI3A	Digital Image Processing	3	1		20	80	100
7EI4A	Analytical & Environmental Instrumentation	3	0		20	80	100
7EI5A	Instrumentation in Industries	3	0		20	80	100
7EI6A	Elective (any one of the following)						
7EI6.1A	Microwave Engineering	3	0		20	80	100
7EI6.2A	Advanced Microprocessors						
7EI6.3A	Artificial Intelligence and Expert Systems						
	<b>Total</b>						<b>600</b>
7EI7A	Control System Simulation Lab-II			2	45	30	75
7EI8A	Analytical Instrumentation Lab			2	45	30	75
7EI9A	Industrial Economics & Management.			2	30	20	50
7EI10A	Practical Training & Industrial Visit			2	60	40	100
7EI11A	Project - I			2	30	20	50
7EIDCA	Discipline & Extra Curricular Activity						50
	<b>Total</b>						<b>400</b>
	<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>10</b>			<b>1000</b>

BRANCH CODE	EI						
Course Code	ELECTRONIC INSTRUMENTATION AND CONTROL ENGG	Hrs. / Week					
SEMESTER - VIII		L	T	P	IA	Exam	Total
8EI1A	Industrial Electronics	3	1		20	80	100
8EI2A	Non-Linear Control Systems	3	1		20	80	100
8EI3A	Distributed Control Systems	3	0		20	80	100
8EI4.1A	Wireless Communication	3	0		20	80	100
8EI4.2A	MEMS and Nano Technology						
8EI4.3A	Computer Networks						
	<b>Total</b>						<b>400</b>
8EI5A	Industrial Electronics Lab			3	60	40	100
8EI6A	Real Time Control System Lab			3	60	40	100
8EI7A	Applied Instrumentation Lab			2	30	20	50
8EI8A	Seminar			2	60	40	100
8EI9A	Project - II			4	120	80	200
8EIDCA	Discipline & Extra Curricular Activity						50
	<b>Total</b>						<b>600</b>
	<b>Grand Total</b>	<b>12</b>	<b>2</b>	<b>14</b>			<b>1000</b>