

Scheme of  
UNDERGRADUATE DEGREE COURSE

**B.Tech. V & VI Semester**

**Electronics Instrumentation & Control**



Rajasthan Technical University, Kota  
Effective from session: 2019-20



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme

### B.Tech.: Electronics Instrumentation & Control

### 3<sup>rd</sup> Year –V Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks			Cr	
		Code	Title	L	T	P	Exm Hrs	IA	ETE		Total
1	ESC	5EI 3-01	Digital Signal Processing	3	0	0	3	30	120	150	3
2	PCC/ PEC	5EI 4-02	Sensors And Transducers	3	0	0	3	30	120	150	3
3		5EI 4-03	Control System-I	3	0	0	3	30	120	150	3
4		5EI 4-04	Biomedical Instrumentation	2	0	0	2	20	80	100	2
5		5EI 4-05	Industrial Instrumentation	3	0	0	3	30	120	150	3
6		Professional Elective I (any one)		2	0	0	2	20	80	100	2
		5EI 5-11	Control System Component								
		5EI 5-12	Computer Network								
		5EI 5-13	Probability Theory & Stochastic Process								
		5EI 5-14	Understanding the Human Being Comprehensively- Human Aspirations and Its Fulfillment								
Sub Total				16	0	0		160	640	800	16
PRACTICAL & SESSIONAL											
7	PCC	5EI 4-21	Transducer Lab	0	0	3	2	45	30	75	1.5
8		5EI 4-22	Biomedical Instrumentation Lab	0	0	2	2	30	20	50	1
9		5EI 4-23	Control Lab	0	0	3	2	45	30	75	1.5
10	PSIT	5EI 7-30	Industrial Training	0	0	1		75	50	125	2.5
11	SODE CA	5EI 8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0			25	25	0.5
Sub- Total				0	0	9		195	155	350	7
TOTAL OF V SEMESTER				16	0	9		355	795	1150	23

**L:** Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

**ETE:** End Term Exam, **IA:** Internal Assessment

Office of Dean Academic Affairs  
Rajasthan Technical University, Kota



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme B.Tech.: Electronics Instrumentation & Control 3<sup>rd</sup> Year – VI Semester

THEORY											
SN	Category	Course		Contact hrs/week			Marks			Cr	
		Code	Title	L	T	P	Exm Hrs	IA	ETE		Total
1	ESC	6EI 3-01	Optical Instrumentation	3	0	0	3	30	120	150	3
2	PCC/PEC	6EI 4-02	Power Electronics	3	0	0	3	30	120	150	3
3		6EI 4-03	Control System II	3	0	0	3	30	120	150	3
4		6EI 4-04	Process Control System	3	0	0	3	30	120	150	3
5		6EI 4-05	Neural Networks And Fuzzy Logic Control	3	0	0	3	30	120	150	3
6		Professional Elective II (any one)			2	0	0	2	20	80	100
		6EI 5-11	Control System Design								
		6EI 5-12	Embedded System Design								
		6EI 5-13	Robotics								
		6EI 5-14	Values, Relationship & Ethical Human Conduct- For Happy & Harmonious Society								
Sub Total				17	0	0		170	680	850	17
PRACTICAL & SESSIONAL											
7	PCC	6EI 4-21	Electronics Instrumentation Lab	0	0	4	2	60	40	100	2
8		6EI 4-22	Control System Simulation Lab	0	0	2	2	30	20	50	1
9		6EI 4-23	Process Control Lab	0	0	4	2	60	40	100	2
10		6EI 4-24	Power Electronics Lab	0	0	2	2	30	20	50	1
11	SODE CA	6EI 8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0			25	25	0.5
Sub- Total				0	0	12		180	145	325	6.5
TOTAL OF VI SEMESTER				17	0	12		350	825	1175	23.5

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