

RAJASTHAN TECHNICAL UNIVERSITY

**Teaching And Examination Scheme for B.Tech. (4 Year Course)
In
Applied Electronics & Instrumentation Engg.**

Year : II

Semester: III(Revised)

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
3AI1	Mathematics III	3	1	-	3	20	80	100
3AI2	Electronic Devices & Circuits	3	1	-	3	20	80	100
3AI3	Circuit Analysis & Synthesis	3	1	-	3	20	80	100
3AI4	Digital Electronics	2	1	-	3	20	80	100
3AI5	Basic Electrical & Electronic Measurements	3	0	-	3	20	80	100
3AI6	Data Structures & Algorithms	3	0	-	3	20	80	100
B. Practical & Sessional								
3AI 7	Electronic Lab-I	-	-	3	-	60	40	100
3AI8	Digital Electronics Lab	-	-	2	-	60	40	100
3AI9	Electrical & Electronics Measurements Lab	-	-	3	-	60	40	100
3AI10	Data Structure & Algorithm Lab	-	-	3	-	30	20	50
3AIDC Discipline & Extra Curricular activities :								50
GRAND TOTAL		17	4	11	-	-	-	1000

* I.A. – Internal Assessment

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Year : II

Semester :IV(Revised)

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
4AI1	Mathematics - IV	3	1	-	3	20	80	100
4AI2	Analog Electronics	3	1	-	3	20	80	100
4AI3	Microprocessors	3	1	-	3	20	80	100
4AI4	Transducers in Instrumentation	3	1	-	3	20	80	100
4AI5	Electronic Instrumentation	3	0	-	3	20	80	100
4AI6	Elective (any one of the following)	3	0	-	3	20	80	100
4AI6.1	Object Oriented Programming							
4AI6.2	Computer Oriented Numerical Methods							
4AI6.3	Data Base Management System	3	0	-	3	20	80	100
B. Practical & Sessional								
4AI7	Electronics Lab-II	-	-	3	-	60	40	100
4AI8	Microprocessor Lab	-	-	3	-	60	40	100
4AI9	Transducer & Measurement Lab	-	-	2	-	45	30	75
4AI10	Electronics Workshop	-	-	2	-	45	30	75
4AIDC Discipline & Extra Curricular Activities :						-	-	50
GRAND TOTAL		18	4	10	-	-	-	1000

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Year : III

Semester :V

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
5A11	Field Theory	3	1	-	3	20	80	100
5A12	Linear Integrated Circuits	3	1	-	3	20	80	100
5A13	Control Systems	3	1	-	3	20	80	100
5A14	Analog Communication	3	1	-	3	20	80	100
5A15	Biomedical Instrumentation	3	0	-	3	20	80	100
5A16	Elective (any one of the following)	3	0	-	3	20	80	100
5A16.1	Optimization Techniques							
5A16.2	Analytical & Environmental Instrumentation							
5A16.3	Information Theory and Coding							
B. Practical & Sessional :								
5A17	Integrated Circuits Lab	-	-	2	-	60	40	100
5A18	Communication Systems Lab	-	-	3	-	60	40	100
5A19	Electronic Instrumentation Lab	-	-	3	-	60	40	100
5A110	Humanities	-	-	2	-	30	20	50
5A1DC	Discipline & Extra Curricular activities :					-	-	50
GRAND TOTAL		18	4	10	-	-	-	1000

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Year : III

Semester: VI

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
6AI1	Process Control Systems	3	1	-	3	20	80	100
6AI2	Signals & Systems	3	1	-	3	20	80	100
6AI3	Industrial Electronics	3	0	-	3	20	80	100
6AI4	Digital Communication	3	1	-	3	20	80	100
6AI5	Microcontroller & Embedded System	3	1	-	3	20	80	100
6AI6	Elective (any one of the following)	3	0	-	3	20	80	100
6AI6.1	IC Technology							
6AI6.2	Wireless communication							
6AI6.3	Fiber Optics Instrumentation							
B. Practical & Sessional :								
6AI7	Control Systems Lab	-	-	3	-	60	40	100
6AI8	Digital Communication Lab	-	-	2	-	45	30	75
6AI9	Industrial Electronics Lab	-	-	2	-	45	30	75
6AI10	Microcontroller Lab	-	-	3	-	60	40	100
6AIDC Discipline & Extra Curricular activities :								50
GRAND TOTAL		18	4	10	-	-	-	1000

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Year : IV

Semester: VII

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
7A11	Neural Networks & Fuzzy Logic Control	3	1	-	3	20	80	100
7A12	Digital Signal Processing	3	1	-	3	20	80	100
7A13	Industrial Automation	3	1	-	3	20	80	100
7A14	Telecom Systems	3	1	-	3	20	80	100
7A15	Modern Control System	3	1	-	3	20	80	100
7A16	Elective (any one of the following)	3	0	-	3	20	80	100
7A16.1	Antenna & Wave Propagation							
7A16.2	Microwave Engineering							
7A16.3	Robotics							
B. Practical & Sessional :								
7A17	Telematics Lab	-	-	3	-	60	40	100
7A18	Digital Signal Processing Lab	-	-	3	-	60	40	100
7A19	Practical Training Seminar & Industrial visit	-	-	2	-	60	40	100
7A110	Project (Part-I)	-	-	2	-	30	20	50
7AIDC Discipline & Extra Curricular activities :								50
GRAND TOTAL		18	5	10	-	-	-	1000

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Semester: VIII

Code	Subject	Hrs./week			Exam Hrs.	Maximum Marks		
		L	T	P		*I.A.	Exam	Total
A. Theory Papers								
8AI 1	Instrumentation in Industries	3	0	-	3	20	80	100
8AI 2	VLSI Design	3	1	-	3	20	80	100
8AI 3	Data Communication & Networks	3	1	-	3	20	80	100
8AI 4	Elective (any one of the following)	3	0	-	3	20	80	100
8AI4.1	Image processing & pattern recognition							
8AI4.2	Operating Systems							
8AI4.3	Instrumentation System Reliability							
B. Practical & Sessional :								
8AI5	Data Communication & Network Lab	-	-	3	-	45	30	75
8AI6	Computer Control Lab	-	-	3	-	45	30	75
8AI7	Simulation & Design Lab	-	-	2	-	30	20	50
8AI8	Industrial Economics & Management	-	-	2	-	30	20	50
8AI 9	Seminar	-	-	2	-	60	40	100
8AI 10	Project (Part-II)	-	-	2	-	120	80	200
8AIDC	Discipline & Extra Curricular activities :							50
GRAND TOTAL		12	2	14	-	-	-	1000

* I.A. – Internal Assessment