

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Electronics and Instrumentation Engineering
Effective From the Academic Year 2018-2019 (R18 Regulations)
First Year B. Tech (SEMESTER – I)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18MA001	Linear Algebra and Ordinary Differential Equations	3	1	0	4	50	50	100	3
2	18PH001	waves and optics (Physics - 1)	4	1	0	5	50	50	100	4
3	18CY001	Engineering Chemistry	4	0	0	4	50	50	100	3
4	18EL001	Communicative English	3	0	0	3	50	50	100	2
5	18MEL01	Engineering Graphics	2	0	4	6	50	50	100	3
6	18PHL01	Physics Lab	0	0	3	3	50	50	100	1
7	18ELL01	English communications and Skills laboratory	0	0	3	3	50	50	100	1
8	18MEL01	Workshop	0	0	3	3	50	50	100	1
		TOTAL	16	2	13	31	400	400	800	18

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)**For*****Electronics and Instrumentation Engineering*****Effective from the Academic Year 2018-2019 (R18 Regulations)****First Year B. Tech (SEMESTER – II)**

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18MA002	Numerical Methods and Advanced Calculus	4	0	0	4	50	50	100	3
2	18PH003	Semiconductor Physics and Nano Materials	4	0	0	4	50	50	100	3
3	18EI203	Instrumentation & Nanotechnology	4	0	0	4	50	50	100	3
4	18EE002	Basic Electrical Engineering	4	0	0	4	50	50	100	3
5	18CE001	Environmental Studies	3	0	0	3	50	50	100	2
6	18CS001	Programming for Problem Solving	4	0	0	4	50	50	100	3
7	18CYL01	Chemistry Lab	0	0	3	3	50	50	100	1
8	18EEL01	Basic Electrical Engineering Lab	0	0	3	3	50	50	100	1
9	18CSL01	Programming Lab	0	0	3	3	50	50	100	1
		TOTAL	23	0	9	32	450	450	900	20

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Electronics and Instrumentation Engineering

Effective From the Academic Year 2018-2019 (R18 Regulations)

Second Year B. Tech (SEMESTER – III)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18MA003	Probability and Statistics	3	1	0	4	50	50	100	3
2	18EI302	Electronic Devices Circuits	3	1	0	4	50	50	100	3
3	18EI303	Digital Electronics	3	1	0	4	50	50	100	3
4	18EI304	Network Theory	3	1	0	4	50	50	100	3
5	18ME001	Elements of Mechanical Engineering	4	0	0	4	50	50	100	3
6	18EI306	Professional Ethics and Human Values	3	0	0	3	50	50	100	2
7	18EIL31	Electronic Devices Lab	0	0	3	3	50	50	100	1
8	18EIL32	Digital Electronics Lab	0	0	3	3	50	50	100	1
9	18EIL 33	Simulation Lab (Net Works)	0	0	3	3	50	50	100	1
		TOTAL	19	4	9	32	450	450	900	20

CIE: Continuous Internal Evaluation

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P: Practical

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Second Year B. Tech (SEMESTER – IV)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18MA004	Complex Analysis and Special functions	3	1	0	4	50	50	100	3
2	18EI402	Electrical & Electronic Measurements	4	1	0	4	50	50	100	4
3	18EI403	Signals & Systems	4	1	0	4	50	50	100	4
4	18EI404	Analog Electronic Circuits–1	4	1	0	4	50	50	100	4
5	18EL002	Technical English	3	0	0	3	50	50	100	2
6	18CE002	Biology for Engineers	3	0	0	4	50	50	100	2
7	18EIL41	Measurements Lab	0	0	3	3	50	50	100	1
8	18EIL42	Signals and Systems Lab	0	0	3	3	50	50	100	1
9	18EIL43	Analog Electronic Circuits Lab	0	0	3	3	50	50	100	1
		TOTAL	21	4	9	34	450	450	900	22

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Third Year B. Tech (SEMESTER – V)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18EI501	Control Systems	4	1	0	5	50	50	100	4
2	18EI502	Transducers	3	1	0	4	50	50	100	3
3	18EI503	Analog Electronic Circuits – II	3	1	0	4	50	50	100	3
4	18EI504	Microcontrollers	3	1	0	4	50	50	100	3
5	18EID1 1...4	Program Elective - 1	3	1	0	4	50	50	100	3
6	18EI506	Analog and Digital Communications	3	1	0	4	50	50	100	3
7	18EIL51	Simulation Lab (Control Systems)	0	0	3	3	50	50	100	1
8	18EIL52	Transducers Lab	0	0	3	3	50	50	100	1
9	18EIL53	Micro Controllers Lab	0	0	3	3	50	50	100	1
10		MOOCS								2
		TOTAL	19	6	9	34	450	450	900	24

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Program Elective - I

- 1) Pulse switching Circuits
- 2) Noise and interference in instrumentation
- 3) Intelligent sensors and instrumentation
- 4) Telemetry and SCADA

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Third Year B. Tech (SEMESTER – VI)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18EI601	Industrial Instrumentation	3	1	0	4	50	50	100	3
2	18EI602	Process Control	4	1	0	4	50	50	100	4
3	18EI603	Digital Signal Processing	3	1	0	4	50	50	100	3
4	18EID2 1...4	Program Elective - 2	3	1	0	4	50	50	100	3
5	18EI605	OOPS With JAVA	3	1	0	4	50	50	100	3
6	18EI606	Constitution of India	3	0	0	3	50	50	100	0
7	18EIL61	Process Control Lab	0	0	3	3	50	50	100	1
8	18EIL62	Digital Signal Processing Lab	0	0	3	3	50	50	100	1
9	18ELL02	Technical English Lab	0	0	3	3	50	50	100	1
		TOTAL	19	5	9	33	450	450	900	19

CIE: Continuous Internal Evaluation

L: Lecture

T: Tutorial

SEE: Semester End Examination

P: Practical

Program Elective – 2

- 1) Digital Control Systems
- 2) Advanced Digital System Design
- 3) Robotics and Automation
- 4) Measurement errors and Statistical Analysis

SUMMER INTURNSHIP – CREDITS - 2

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Electronics and Instrumentation Engineering

Effective From the Academic Year 2018-2019 (R18 Regulations)

Fourth Year B. Tech (SEMESTER – VII)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18ME002	Industrial Management and Entrepreneurship development Management-1	4	0	0	4	50	50	100	3
2	18EI702	Biomedical Instrumentation	4	0	0	4	50	50	100	3
3	18EI703	Analytical Instrumentation	4	0	0	4	50	50	100	3
4	18EID3 1...4	Program Elective -3	3	1	0	4	50	50	100	3
5	18EID4 1...4	Program Elective – 4	3	1	0	4	50	50	100	3
6	18...I1 1..2	Institutional Elective-- 1	3	1	0	4	50	50	100	3
7	18EIL71	Project - 1	0	0	5	5	50	50	100	2
8	18EIL72	BMI Lab	0	0	1	3	50	50	100	1
9	18EIL73	AI Lab	0	0	1	3	50	50	100	1
10		INTEURN SHIP					100	-	100	2
		TOTAL	21	3	7	35	550	450	1000	24

CIE: Continuous Internal Evaluation

L: Lecture

SEE: Semester End Examination

T: Tutorial

P: Practical

Program Elective – 3

- 1) Optoelectronics and laser Instrumentation
- 2) Embedded Systems
- 3) Optimization Techniques.
- 4) Non Linear and Robust Control

Program Elective -4

- 1) Data Communications
- 2) Bio signal processing
- 3) Microprocessor based medical instruments
- 4) Wireless Sensor Networks.

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

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Forth Year B. Tech (SEMESTER – VII)

S.No	Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
			L	T	P	Total	CIE	SEE	Total Marks	
1	18EID5 1...4	Program Elective-5	3	1	0	4	50	50	100	3
2	18EID6 1...4	Program Elective-6	3	1	0	4	50	50	100	3
3	18..I2 1..2	Institutional Elective— II	3	1	0	3	50	50	100	3
4	18EIP81	Project-II	0	0	20	20	75	75	150	10
		TOTAL	9	3	20	31	225	225	450	19

CIE: Continuous Internal Evaluation

L: Lecture

T: Tutorial

SEE: Semester End Examination

P: Practical

Program Elective - 5

- 1) virtual instrumentation
- 2) Instrumentation for Aerospace and Navigation
- 3) Medical Imaging
- 4) Programmable Logic Controllers

Program Elective - 6

- 1) Digital Image Processing
- 2) Graph Theory and applications
- 3) Advanced Sensors
- 4) Adaptive Control Systems

Institutional Elective-I

S.No.	Code	Course Title
1	18CEI01	Air Pollution & Control
2	18CEI02	Sustainable Water and Sanitation
3	18CSI01	Java Programming
4	18CSI02	Database Management Systems
5	18ECI01	Consumer Electronics
6	18ECI02	Embedded Systems
7	18EEI01	Application of Wavelets to Engineering Problems
8	18EEI02	Industrial Electrical Systems
9	18ITI01	Data Analytics
10	18ITI02	Cyber Security
11	18MEI01	Fluid Power and Control Systems
12	18MEI02	Project Management
13	18MAI01	Linear Algebra
14	18PHI01	Nano-Materials and Technology
15	18PHI02	Fiber Optic Communication
16	18HUI01	System Thinking
17	18ELI01	English for Competitive Examinations
18	18ELI02	Professional Communication

Institutional Elective-II

S.No.	Code	Course Title
1	18CEI03	Disaster Management
2	18CEI04	Remote sensing & GIS
3	18CSI03	Python Programming
4	18CSI04	Computer Networks
5	18ECI03	Artificial Neural Network
6	18ECI04	Internet of things(IoT)
7	18EEI03	High Voltage Engineering
8	18EEI04	Energy Auditing and Conservation
9	18ITI03	Mobile Application Developments
10	18ITI04	Web Technology
11	18MEI03	Non-Conventional Energy Sources
12	18MEI04	Automobile Engineering
13	18MAI02	Graph Theory
14	18PHI03	Advanced Materials
15	18PHI04	Optical Electronics
16	18HUI02	Organizational Psychology
17	18HUI03	Telugu Modern Literature
18	18ELI03	English Through Media

