

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
CH, CS, EI, IT, ME Branches
With Effective from 2014-2015 Academic Year
First Year B.Tech., (SEMESTER – I)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA101	Engineering Mathematics – I	4	1	0	0	5	40	60	100	4
14PH102	Engineering Physics – I	4	0	0	0	4	40	60	100	3
14CY103	Engineering Chemistry – I	4	0	0	0	4	40	60	100	3
14EL104	Communicative English	4	0	0	0	4	40	60	100	3
14ES105	Environmental Studies	4	0	0	0	4	40	60	100	3
14EG106	Engineering Graphics	4	1	0	1	6	40	60	100	4
14CYL101	Chemistry Lab	0	0	3	0	3	40	60	100	2
14ELL102	English Communication and Skills Laboratory	0	0	3	0	3	40	60	100	2

14WSL103	Workshop	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation
L: Lecture T: Tutorial

SEE: Semester End Examination
P: Practical S: Self Study

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
CH, CS, EI, IT, ME Branches
With Effective from 2014-2015 Academic Year
First Year B.Tech, (SEMESTER – II)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA201	Engineering Mathematics – II	4	1	0	0	5	40	60	100	4
14PH202	Engineering Physics – II	4	0	0	0	4	40	60	100	3
14CY203	Engineering Chemistry – II	4	0	0	0	4	40	60	100	3
14EE204	Basic Electrical and Electronics Engineering	4	0	0	0	4	40	60	100	3
14EM205	Engineering Mechanics	4	1	0	0	5	40	60	100	4
14CP206	Problem Solving with Programming	4	0	0	1	5	40	60	100	3
14PHL201	Physics lab	0	0	3	0	3	40	60	100	2

14HWL202	Hardware Lab	0	0	3	0	3	40	60	100	2
14CPL203	Problem Solving with Programming Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
ELECTRONICS & INSTRUMENTATION ENGINEERING
With Effective from 2014-2015 Academic Year
Second Year B.Tech, (SEMESTER – III)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum Marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14EI/MA301	Engineering Mathematics - III	4	0	0	0	5	40	60	100	3
14EI302	Data Structures using 'C'	4	0	0	0	4	40	60	100	3
14EI303	Electronic Devices	4	0	0	0	4	40	60	100	3
14EI304	Elements of Mechanical Engineering	4	0	0	0	4	40	60	100	3
14EI305	Digital Electronics	4	1	0	0	5	40	60	100	4
14EI306	Circuit Theory	4	1	0	1	5	40	60	100	4
14EIL301	Data structures Lab	0	0	3	0	3	40	60	100	2
14EIL302	Electronic Devices Lab	0	0	3	0	3	40	60	100	2
14EIL303	Digital Electronics Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Electronics & Instrumentation Engineering
With Effective From 2014-2015 Academic Year
Second Year B.Tech., (SEMESTER –IV)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum Marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA401	Engineering Mathematics - IV	4	0	0	0	4	40	60	100	3
14EI402	Electronic Circuits – I	4	0	0	0	4	40	60	100	3
14EI403	Electrical Technology	4	0	0	0	4	40	60	100	3
14EI404	Microprocessors and Interfacing	4	0	0	1	5	40	60	100	3
14EI405	Electrical & Electronic Measurements	4	1	0	0	5	40	60	100	4
14EI406	Signals & Systems	4	1	0	0	5	40	60	100	4
14EIL401	Electronic Circuits – I Lab	0	0	3	0	3	40	60	100	2
14EIL402	Measurements Lab	0	0	3	0	3	40	60	100	2
14EIL403	Microprocessors and Interfacing Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Electronics & Instrumentation Engineering
With Effective From 2014-2015 Academic Year
Third B.Tech., (SEMESTER –V)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum Marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14EI501	Linear Integrated Circuits	4	1	0	0	5	40	60	100	4
14EI502	Linear Control Systems	4	1	0	0	5	40	60	100	4
14EI503	Electronic Circuits - II	4	0	0	0	4	40	60	100	3
14EI504	Analog and Digital Communications	4	0	0	1	5	40	60	100	3
14EI505	Transducers	4	0	0	0	4	40	60	100	3
14EI506	Elective - I	4	0	0	0	4	40	60	100	3
14EIL501	Transducers Lab	0	0	3	0	3	40	60	100	2
14EIL502	Pulse & Integrated Circuits Lab	0	0	3	0	3	40	60	100	2
14EIL503	PSPICE & Signal Simulation Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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Elective – I

14EI506/A Pulse and Switching Circuits

14EI506/B Electromagnetic Fields Theory

14EI506/C Computer Organization

14EI506/D OOPS and Operating Systems

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Electronics & Instrumentation Engineering
With Effective From 2014-2015 Academic Year
Third B.Tech., (SEMESTER –VI)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum Marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14EI601	Professional Ethics And Human Values	4	0	0	0	4	40	60	100	3
14EI602	Industrial Instrumentation	4	1	0	0	5	40	60	100	4
14EI603	Digital Signal Processing	4	0	0	1	5	40	60	100	3
14EI604	Process Control	4	1	0	0	5	40	60	100	4
14EI605	Object Oriented Programming with JAVA	4	0	0	0	4	40	60	100	3
14EI606	Elective - II	4	0	0	0	4	40	60	100	3
14ELL601	Soft Skills Lab	0	0	3	0	3	40	60	100	2
14EIL602	Process Control Lab	0	0	3	0	3	40	60	100	2
14EIL603	DSP & OOPS Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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Elective – II

14EI606/A. Adaptive Control Systems

14EI606/B. Advanced Computer Architectures

14EI606/C. Programmable Logic Controllers

14EI606/D. Embedded Systems

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Electronics and Instrumentation Engineering
With Effective From 2014-2015 Academic Year
Fourth Year B.Tech., (SEMESTER –VII)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum Marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14EI701	Industrial Management & Entrepreneur Ship Development	4	0	0	0	4	40	60	100	3
14EI702	Biomedical Instrumentation	4	1	0	0	5	40	60	100	4
14EI703	Analytical Instrumentation	4	0	0	0	4	40	60	100	3
14EI704	Optoelectronics and Laser Instrumentation	4	0	0	0	4	40	60	100	3
14EI705	Elective - III	4	1	0	0	5	40	60	100	4
14OE706	Open Elective	4	0	0	0	4	40	60	100	3
14ELL701	Business communications and presentation skills Lab	0	0	2	0	2	20	30	50	1
14EIL702	AI & BMI Lab	0	0	3	0	3	40	60	100	2
14EIL703	VI Lab	0	0	3	0	3	40	60	100	2
14EIL704	Term Paper	0	0	2	0	2	20	30	50	1
	TOTAL	24	2	10	0	36	360	540	900	26

CIE: Continuous Internal Evaluation

L: Lecture

S: Self Study

SEE: Semester End Examination

T: Tutorial

P: Practical

Elective – III

- 14EI705/A. Robotics and automation
- 14EI705/B. Advanced Sensors
- 14EI705/C. Computer Networks
- 14EI705/D. Wireless Sensor Networks

Open Elective

List is provided in the next page

Open Electives offered by the Departments(14OE706)

DEPARTMENT	SUBJECT NAME	SUBJECT CODE
Chemical Engineering.	Industrial Pollution & Control	ChE01
	Energy Engineering	ChE02
Civil Engineering.	Air Pollution & Control	CE 01
	Remote Sensing & GIS	CE 02
Computer Science & Engineering.	Database Management Systems	CS 01
	Java Programming	CS 02
Electrical & Electronics Engineering.	Optimization Techniques	EE 01
	Non-Conventional Energy Sources	EE 02
Electronics & Communication Engineering.	Consumer Electronics	EC 01
	Embedded Systems	EC 02
Electronics & Instrumentation Engineering.	Virtual Instrumentation Using LABVIEW	EI 01
	Sensors & Transducers	EI 02
Information Technology.	Mobile Application Development	IT 01
	Web Technologies	IT 02
Mechanical Engineering.	Automobile Engineering	ME 01
	Refrigeration & Air Conditioning	ME 02
BOSCH REXROTH Centre	Automation Technology	BR 01

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
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Electronics and Instrumentation Engineering
With Effective From 2014-2015 Academic Year
Fourth Year B. Tech., (SEMESTER –VIII)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum Marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14EI801	Computer Control of Process	4	0	0	0	4	40	60	100	3
14EI802	VLSI Design	4	0	0	1	5	40	60	100	3
14EI803	Elective - IV	4	1	0	0	5	40	60	100	4
14EI804	Elective - V	4	0	0	0	4	40	60	100	3
14EIL801	Verilog HDL Lab	0	0	3	0	3	40	60	100	2
14EI802	Project Viva Voce	0	0	12	0	12	50	100	150	10
	TOTAL	16	1	15	1	33	250	400	650	25

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Elective – IV

- 14EI803/A. PC Based Instrumentation
- 14EI803/B. Telemetry & Tele Control
- 14EI803/C. Power Plant Instrumentation
- 14EI803/D. Instrumentation in Aerospace and Navigation

Elective -V

- 14EI804/A. Neural networks
- 14EI804/B. Digital Image Processing
- 14EI804/C. Artificial Intelligence
- 14EI804/D. Instrumentation in Petro Chemical Industrie

