

BAPATLA ENGINEERING COLLEGE :: BAPATLA**(Autonomous)****SCHEME OF INSTRUCTION & EXAMINATION (Semester System)****For*****Electronics and Communication Engineering*****For 2014-15 Batch****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
14EE104	Basic Electrical and Electronics Engineering	4	0	0	0	4	40	60	100	3
14EM105	Engineering Mechanics	4	1	0	0	5	40	60	100	4
14CP106	Problem Solving with Programming	4	0	0	1	5	40	60	100	3
14PHL101	Physics lab	0	0	3	0	3	40	60	100	2
14HWL102	Hardware Lab	0	0	3	0	3	40	60	100	2
14CPL103	Problem Solving with Programming Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

L: Lecture

T: Tutorial

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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
14EL204	Communicative English	4	0	0	0	4	40	60	100	3
14ES205	Environmental Studies	4	0	0	0	4	40	60	100	3
14EG206	Engineering Graphics	4	1	0	1	6	40	60	100	4
14CYL201	Chemistry Lab	0	0	3	0	3	40	60	100	2
14ELL202	English Communication and Skills Lab	0	0	3	0	3	40	60	100	2
14WSL203	Workshop	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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For 2014-15 Batch

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	
14EC301/ 14MA301	Engineering Mathematics–III	3	1			4	40	60	100	3
14EC302	Data Structures using C	3	1			4	40	60	100	3
14EC303	Electronic Devices	3	1			4	40	60	100	3
14EC304	Signals and Systems	3	2			5	40	60	100	4
14EC305	Digital Electronics	3	2			5	40	60	100	4
14EC306	Circuit Theory	3	1		1	5	40	60	100	3
14ECL301	Data Structures Lab			3		3	40	60	100	2
14ECL302	Electronic Devices Lab			3		3	40	60	100	2
14ECL303	Digital Electronics Lab			3		3	40	60	100	2
	TOTAL	18	8	9	1	36	360	540	900	26

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Electronics and Communication Engineering
For 2014-15 Batch

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	
14EC401/14MA401	Engineering Mathematics– IV	3	1			4	40	60	100	3
14EC402	Electronic Circuits – I	3	1		1	5	40	60	100	3
14EC403	Electromagnetic Field Theory	3	1			4	40	60	100	3
14EC404	Analog Communications	3	2			5	40	60	100	4
14EC405	Network analysis and Synthesis	3	2			5	40	60	100	4
14EC406	Basic Instrumentation	3	2			4	40	60	100	3
14ECL401	Electronic Circuits – I Lab			3		3	40	60	100	2
14ECL402	Analog Communication Lab			3		3	40	60	100	2
14ECL403	Signals and Systems lab			3		3	40	60	100	2
	TOTAL	18	8	9	1	36	360	540	900	26

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
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Electronics and Communication Engineering
For 2014-15 Batch

Third Year 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	
14EC501	Linear Integrated Circuits	3	2			5	40	60	100	4
14EC502	Linear Control Systems	3	2			5	40	60	100	4
14EC503	Electronic Circuits – II	3	1			4	40	60	100	3
14EC504	EM Waves and transmission lines	3	1			4	40	60	100	3
14EC505	Digital Communications	3	1			4	40	60	100	3
14EC506	Elective-1	3	1		1	5	40	60	100	3
14ECL501	PSICE Lab			3		3	40	60	100	2
14ECL502	Integrated Circuits Lab			3		3	40	60	100	2
14ECL503	Digital Communications Lab			3		3	40	60	100	2
	TOTAL	18	8	9	1	36	360	540	900	26

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Elective- I

14EC506A Pulse and Switching Circuits

14EC506B Probability and Stochastic Process

14EC506C Linear Algebra

14EC506D Discrete Mathematics

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Third Year 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	
14EC601	Professional Ethics and Human values	3	1			4	40	60	100	3
14EC602	Microprocessors and Microcontrollers	3	2			5	40	60	100	4
14EC603	Digital Signal Processing	3	2			5	40	60	100	4
14EC604	Antenna and Wave Propagation	3	1			4	40	60	100	3
14EC605	Object Oriented Programming with Java	3	1		1	5	40	60	100	3
14EC606	Elective – II	3	1			4	40	60	100	3
14ELL601	Soft Skills Lab			3		3	40	60	100	2
14ECL602	Microprocessors & Microcontrollers Lab			3		3	40	60	100	2
14ECL603	Object Oriented Programming using Java Lab			3		3	40	60	100	2
	TOTAL	18	8	9	1	36	360	540	900	26

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Elective- II

14EC606A Computer Organization and Architecture

14EC606B Communication Systems

14EC606C Bio-Medical Electronics

14EC606D Robotics

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Final 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	
14EC701	Industrial Management and Entrepreneurship Development	3	1			4	40	60	100	3
14EC702	VLSI Design	3	2			5	40	60	100	4
14EC703	Microwave Theory and Techniques	3	1			4	40	60	100	3
14EC704	Digital Image Processing	3	1			4	40	60	100	3
14EC705	Elective - III	3	2			5	40	60	100	4
14OE706	Open Elective	3	1			4	40	60	100	3
14ELL701	Interview Skills Lab			2		2	20	30	50	1
14ECL702	Verilog HDL Lab			3		3	40	60	100	2
14ECL703	Signal and Image Processing Lab using Scilab			3		3	40	60	100	2
14ECL704	Term paper			2		2	20	30	50	1
	TOTAL	18	8	10	0	36	360	540	900	26

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Elective- III

14EC705A Computer Networks

14EC705B Fuzzy Logic

14EC705C Global Positioning System and Applications

14EC705D Satellite Communications

Open Elective

LIST OF OPEN ELECTIVES

DEPARTMENT	SUBJECT NAME	SUBJECT CODE
Chemical Engineering.	Industrial Pollution & Control	ChE 01
	Energy Engineering	ChE 02
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

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Final 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	
14EC801	Radar Engineering	2	2			4	40	60	100	3
14EC802	Fiber Optic Communications	2	2			4	40	60	100	3
14EC803	Elective –IV	3	2			5	40	60	100	4
14EC804	Elective – V	2	2		1	5	40	60	100	3
14ECL801	Microwave & Optical Communication Lab			3		3	40	60	100	2
14ECPR802	Project Work			12		12	50	100	150	10
	TOTAL	9	8	15	1	33	250	400	650	25

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Elective- IV

14EC803A Artificial Intelligence and Machine Learning

14EC803B Speech and Audio Processing

14EC803C Information Theory and Coding

14EC804D Mobile Communications

Elective- V

14EC804A Neural Networks

14EC804B Advanced Microcontrollers

14EC804C Software Defined Radio

14EC804D Adaptive Signal Processing