

BAPATLA ENGINEERING COLLEGE : BAPATLA
(Autonomous)
SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
First Year B.Tech. (SEMESTER – I)
For
Electrical and Electronics Engineering
With Effect From 2014-2015 Academic Year

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

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture

T: Tutorial

P: Practical

S: Self Study

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
First Year B.Tech., (SEMESTER – II)
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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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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
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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	
14MA301	Engineering Mathematics – III	4	0	0	0	4	40	60	100	3
14EE302	Basic Electronic Devices	4	0	0	0	4	40	60	100	3
14EE303	Circuit Theory	4	1	0	0	5	40	60	100	4
14EE304	Prime Movers and Pumps	4	0	0	0	4	40	60	100	3
14EE305	Switching Theory & Logic Design	4	0	0	1	5	40	60	100	3
14EE306	DC Machines	4	1	0	0	5	40	60	100	4
14EEL301	Networks and Simulation Lab	0	0	3	0	3	40	60	100	2
14EEL302	Electronics Lab-I	0	0	3	0	3	40	60	100	2
14EEL303	DC Machines Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

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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
14EE402	Analog Electronic Circuits	4	0	0	0	4	40	60	100	3
14EE403	Object Oriented Programming and Operating System	4	0	0	0	4	40	60	100	3
14EE404	Network Analysis & synthesis	4	0	0	1	5	40	60	100	3
14EE405	Electromagnetic Field Theory	4	1	0	0	5	40	60	100	4
14EE406	Transformers & Induction Motors	4	1	0	0	5	40	60	100	4
14EEL401	AC Machines Lab-I	0	0	3	0	3	40	60	100	2
14EEL402	Fluid Mechanics & IC Engines Lab	0	0	3	0	3	40	60	100	2
14EEL403	Object Oriented 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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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	
14EE501	Generation of Electrical Power	4	0	0	0	4	40	60	100	3
14EE502	Control Systems	4	0	0	0	4	40	60	100	3
14EE503	Transmission and Distribution	4	1	0	0	5	40	60	100	4
14EE504	Linear IC's & Applications	4	1	0	0	5	40	60	100	4
14EE505	Synchronous & Special Machines	4	0	0	1	5	40	60	100	3
14EE506	Elective-1	4	0	0	0	4	40	60	100	3
14ELL501	Soft Skills Lab	0	0	3	0	3	40	60	100	2
14EEL502	AC Machines Lab-II	0	0	3	0	3	40	60	100	2
14EEL503	Electronics Lab-II	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

14EE506 (A): Signals & Systems

14EE506 (B): Data Base Management Systems

14EE506 (C): Data Structures Using C++

14EE506 (D): Computer Networks

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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	
14EE601	Professional Ethics and Human values	4	0	0	0	4	40	60	100	3
14EE602	Microprocessor and Microcontrollers	4	1	0	0	5	40	60	100	4
14EE603	Electrical Measurements & Instrumentation	4	1	0	0	5	40	60	100	4
14EE604	Power Electronics	4	0	0	0	4	40	60	100	3
14EE605	Power System Analysis	4	0	0	1	5	40	60	100	3
14EE606	Elective – II	4	0	0	0	4	40	60	100	3
14EEL601	Electrical Measurements & Work Shop Lab	0	0	3	0	3	40	60	100	2
14EEL602	Microprocessor & Microcontrollers Lab	0	0	3	0	3	40	60	100	2
14EEL603	Control Systems 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

14EE606 (A): Digital Signal Processing.

14EE606 (B): Advanced Control Systems

14EE606 (C): Energy Conservation and Audit

14EE606 (D): Artificial Neural Networks

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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	
14EE701	Industrial Management and Entrepreneurship Development	4	0	0	0	4	40	60	100	3
14EE702	Power System Operation Control & Stability	4	1	0	0	5	40	60	100	4
14EE703	Utilization of Electrical Power	4	1	0	0	5	40	60	100	4
14EE704	Switch Gear and Protection	4	0	0	0	4	40	60	100	3
14EE705	Elective - III	4	0	0	0	4	40	60	100	3
14EE706	Open Elective	4	0	0	0	4	40	60	100	3
14ELL701	Business Communication & Presentation Skills Lab	0	0	2	0	2	20	30	50	1
14EEL702	Power Electronics Lab	0	0	3	0	3	40	60	100	2
14EEL703	Computer Simulation of Electrical Systems Lab	0	0	3	0	3	40	60	100	2
14EEL704	Term paper	0	0	2	0	2	20	30	50	1
	TOTAL	24	2	10	0	36	360	540	900	26

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Elective -III

14EE705 (A): Electrical Power Distribution Systems Engineering

14EE705 (B): Optimization Techniques

14EE705(C): Process Control & Instrumentation

14EE705 (D): Fuzzy Logic and Applications

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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	
14EE801	Industrial Drives	4	0	0	1	5	40	60	100	3
14EE802	Computer Aided Power Systems	4	1	0	0	5	40	60	100	4
14EE803	Elective –IV	4	0	0	0	4	40	60	100	3
14EE804	Elective – V	4	0	0	0	4	40	60	100	3
14EEPR801	Project Work	0	0	12	0	12	50	100	150	10
14EEL802	Power Systems Lab	0	0	3	0	3	40	60	100	2
	TOTAL	16	1	15	1	33	250	400	650	25

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Elective- IV

14EE803 (A): High Voltage Engineering
14EE803 (B): Electrical Machine Design
14EE803 (C): Embedded Systems and VLSI.
14EE803 (D): Principles of Power Quality

Elective- V

14EE804 (A): FACTS Controllers
14EE804 (B): Computer Organization
14EE804 (C): HVDC Transmission.
14EE804 (D): Renewable Energy Sources