



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

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	Total	CIE	SEE	Total Marks	
INDUCTION PROGRAM									
18MA001	Linear Algebra and ODE	4	0	0	4	50	50	100	3
18CY001	Engineering Chemistry	4	0	0	4	50	50	100	3
18CE001	Environmental Studies	3	0	0	3	50	50	100	2
18EL001	Communicative English	3	0	0	3	50	50	100	2
18MEL01	Engineering Graphics	1	0	4	5	50	50	100	3
18CYL01	Chemistry Lab	0	0	3	3	50	50	100	1
18MEL02	Workshop	0	0	3	3	50	50	100	1
18ELL01	English Communication Lab	0	0	3	3	50	50	100	1
	TOTAL	15	0	13	28	400	400	800	16

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

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	Total	CIE	SEE	Total Marks	
18MA002	Numerical methods and Advanced Calculus	4	0	0	4	50	50	100	3
18PH003	Semiconductor Physics	4	1	0	4	50	50	100	4
18CS203	Professional Ethics & Human Values	4	0	0	4	50	50	100	3
18CS204	Digital Logic Design	4	0	0	4	50	50	100	3
18EE001	Basic Electronics & Electrical Engineering	4	0	0	4	50	50	100	3
18CS001	Problem Solving using Programming	4	0	0	4	50	50	100	3
18PHL01	Semiconductor Physics Lab	0	0	3	3	50	50	100	1
18EEL01	Basic Electronics & Electrical Engineering Lab	0	0	3	3	50	50	100	1
18CSL01	Problem Solving using Programming Lab	0	0	3	3	50	50	100	1
	TOTAL	24	1	9	34	450	450	900	22

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

For
Computer Science and Engineering
Effective from the Academic Year 2018-2019 (R18 Regulations)
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	Total	CIE	SEE	Total Marks	
18MA003	Probability & Statistics	4	0	0	4	50	50	100	3
18CS302	Data Structures	4	0	0	4	50	50	100	3
18CS303	Discrete Mathematics	4	0	0	4	50	50	100	3
18CS304	Object Oriented Programming	4	0	0	4	50	50	100	3
18CS305	Operating System	4	0	0	4	50	50	100	3
18CS306	Microprocessor & Microcontrollers	4	0	2	6	50	50	100	4
18CSL31	Unix Programming Lab	2	0	3	5	50	50	100	3
18CSL32	Data Structures Lab	0	0	3	3	50	50	100	1
18CSL33	OOPs Lab	0	0	3	3	50	50	100	1
	TOTAL	26	0	11	37	450	450	900	24

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

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	Total	CIE	SEE	Total Marks	
18MA005	Optimization Techniques	4	0	0	4	50	50	100	3
18CS402	Web Technologies	4	0	0	4	50	50	100	3
18CS403	Database Management System	4	0	0	4	50	50	100	3
18CS404	Computer Organization	4	0	0	4	50	50	100	3
18EL002	Technical English	4	0	0	4	50	50	100	3
18CS406	Design and Analysis of Algorithms	4	0	0	4	50	50	100	3
18CSL41	Python Programming Lab	2	0	3	5	50	50	100	3
18CSL42	Web Technologies Lab	0	0	3	3	50	50	100	1
18CSL43	RDBMS Lab	0	0	3	3	50	50	100	1
	TOTAL	26	0	9	35	450	450	900	23

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

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	Total	CIE	SEE	Total Marks	
18CS501	Software Engineering	4	0	0	4	50	50	100	3
18CS502	Automata Theory & Formal Languages	4	0	0	4	50	50	100	3
18CS503	Enterprise Programming	4	0	0	4	50	50	100	3
18CS504	Computer Networks	4	0	0	4	50	50	100	3
18CS505	Indian Traditional Knowledge	3	0	0	3	50	50	100	0
18CSD1_	Department Elective-I	4	0	0	4	50	50	100	3
18CSL51	C# Programming	2	0	3	5	50	50	100	3
18CSL52	Enterprise Programming Lab	0	0	3	3	50	50	100	1
18ELL02	Soft Skills Lab	0	0	3	3	50	50	100	1
18CSMO1	MOOCs								2
	TOTAL	25	0	9	34	450	450	900	22

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical

Department Elective-I	
18CSD11	Advanced Computer Architecture.
18CSD12	Data Warehousing
18CSD13	Artificial Intelligence



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

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	Total	CIE	SEE	Total Marks	
18CS601	Machine Learning	4	0	0	4	50	50	100	3
18CS602	Compiler Design	4	0	0	4	50	50	100	3
18CS603	Cryptograph & Network Security	4	0	0	4	50	50	100	3
18CS604	Middleware Technologies	4	0	0	4	50	50	100	3
18CSD2_	Department Elective-II	4	0	0	4	50	50	100	3
18CSD3_	Department Elective-III	4	0	0	4	50	50	100	3
18CSL61	Machine Learning Lab	0	0	3	3	50	50	100	1
18CSL62	Middleware Technologies Lab	0	0	3	3	50	50	100	1
18CSLD2_	Dept. Elective-II Lab	0	0	3	3	50	50	100	1
	TOTAL	24	0	9	33	450	450	900	21

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical

Department Elective-II	
18CSD21	Mobile Application Development
18CSD22	Cloud Programming
18CSD23	Statistics with R

Dept. Elective-II Lab	
18CSLD21	Mobile Application Development Lab
18CSLD22	Cloud Programming Lab
18CSLD23	Statistics with R Lab

Department Elective-III	
18CSD31	Artificial Neural Networks and Deep Learning
18CSD32	Software Project Management
18CSD33	Digital Image Processing



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

Forth 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	Total	CIE	SEE	Total Marks	
18CS701	Distributed System	4	0	0	4	50	50	100	3
18CS702	Wireless Networks	4	0	0	4	50	50	100	3
18CS703	Object Oriented Analysis and Design	4	0	0	4	50	50	100	3
18__I__	Institutional Elective -I	4	0	0	4	50	50	100	3
18CSD4_	Department Elective-IV	4	0	0	4	50	50	100	3
18CS706	Constitution of India	3	0	0	3	50	50	100	0
18CSP01	Project - I	0	0	4	4	50	50	100	2
18CSL72	Object Oriented Analysis and Design Lab	0	0	3	3	50	50	100	1
18CSLD4_	Dept. Elective-IV Lab	0	0	3	3	50	50	100	1
18CSIII1	Internship					100	--	100	2
	TOTAL	23	0	10	33	550	450	1000	21

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical

Department Elective-IV	
18CSD41	Cyber Security
18CSD42	Network Programming
18CSD43	Big Data Analytics

Dept. Elective-IV Lab	
18CSLD41	Cyber SecurityLab
18CSLD42	Network ProgrammingLab
18CSLD43	Big Data AnalyticsLab



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Computer Science and Engineering

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

Forth 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	Total	CIE	SEE	Total Marks	
18ME005	Industrial Management & Entrepreneurship Development	4	0	0	4	50	50	100	3
18__I__	Institutional Elective -II	4	0	0	4	50	50	100	3
18CSD5_	Department Elective - V	4	0	0	4	50	50	100	3
18CSP02	Project - II	0	0	10	10	75	75	150	10
	TOTAL	12	0	10	22	225	225	450	19

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lecture,

T: Tutorial,

P: Practical

Department Elective - V	
18CSD51	Protocols for Secure Electronic Commerce
18CSD52	Blockchain Technologies
18CSD53	Object Oriented Software Engineering



BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

Institutional Elective-I	
18CEI01	Air Pollution & Control
18CEI02	Sustainable Water and Sanitation
18ECI01	Consumer Electronics
18ECI02	Embedded Systems
18EEI01	Application of Wavelets to Engineering Problems
18EEI02	Industrial Electrical Systems
18EII01	Principles & Applications of MEMS
18EII02	Power System Instrumentation
18ITI01	Data Analytics
18ITI02	Cyber Security
18MEI01	Fluid Power and Control Systems
18MEI02	Project Management
18MAI01	Linear Algebra
18PHI01	Nano-Materials and Technology
18PHI02	Fiber Optic Communication
18HUI01	System Thinking

Institutional Elective-II	
18CEI03	Disaster Management
18CEI04	Remote sensing & GIS
18ECI03	Artificial Neural Network
18ECI04	Internet of Things
18EEI03	High Voltage Engineering
18EEI04	Energy Auditing and Conservation
18EII03	Robotics and Automation
18EII04	Advanced Computer Control Systems
18ITI03	Mobile Application Developments
18ITI04	Web Technology
18MEI03	Non-Conventional Energy Sources
18MEI04	Automobile Engineering
18MAI02	Graph Theory
18PHI03	Advanced Materials
18PHI04	Optical Electronics
18HUI02	Organizational Psychology
18HUI03	Telugu Modern Literature
18ELI03	English Through Media