



**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	
<b>INDUCTION PROGRAM</b>									
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
	<b>TOTAL</b>	15	0	13	28	400	400	800	16

CIE: Continuous Internal Evaluation

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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	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
	<b>TOTAL</b>	24	1	9	34	450	450	900	22

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**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 Systems	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

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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	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
	<b>TOTAL</b>	26	0	9	35	450	450	900	23

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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	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
<b>18CSD1_</b>	<b>Department Elective-I</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
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
	<b>TOTAL</b>	<b>25</b>	<b>0</b>	<b>9</b>	<b>34</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>22</b>

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



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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	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
<b>18CSD2_</b>	<b>Department Elective-II</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
<b>18CSD3_</b>	<b>Department Elective-III</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
18CSL61	Machine Learning Lab	0	0	3	3	50	50	100	1
18CSL62	Middleware Technologies Lab	0	0	3	3	50	50	100	1
<b>18CSLD2_</b>	<b>Dept. Elective-II Lab</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>1</b>
	<b>TOTAL</b>	<b>24</b>	<b>0</b>	<b>9</b>	<b>33</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>21</b>

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

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

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



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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
<b>18_I_</b>	<b>Institutional Elective -I</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
<b>18CSD4_</b>	<b>Department Elective-IV</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
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
<b>18CSLD4_</b>	<b>Dept. Elective-IV Lab</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>1</b>
18CSIII	Internship					100	--	100	2
	<b>TOTAL</b>	<b>23</b>	<b>0</b>	<b>10</b>	<b>33</b>	<b>550</b>	<b>450</b>	<b>1000</b>	<b>21</b>

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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



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**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
<b>18_I_</b>	<b>Institutional Elective -II</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
<b>18CSD5_</b>	<b>Department Elective - V</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>3</b>
18CSP02	Project – II	0	0	10	10	75	75	150	10
	TOTAL	12	0	10	22	225	225	450	19

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<b>Department Elective – V</b>	
18CSD51	Protocols for Secure Electronic Commerce
18CSD52	Blockchain Technologies
18CSD53	Object Oriented Software Engineering