

**BAPATLA ENGINEERING COLLEGE : BAPATLA**  
**(Autonomous)**  
**SCHEME OF INSTRUCTION & EXAMINATION (Semester System)**  
**For**  
**Civil Engineering**  
**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
14CH103	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	Computer Programming with C	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	Computer 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

S: Self Study

T: Tutorial

P: Practical

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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
14CH203	Engineering Chemistry – II	4	0	0	0	4	40	60	100	3
14EL204	English Language and Communication	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
14CHL201	Chemistry Lab	0	0	3	0	3	40	60	100	2
14ELL202	English Language Laboratory	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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**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
14CE302	Building Materials and concrete Technology	4	0	0	0	4	40	60	100	3
14CE303	Surveying-I	4	0	0	1	5	40	60	100	3
14CE304	Solid Mechanics - I	4	1	0	0	5	40	60	100	4
14CE305	Fluid Mechanics	4	1	0	0	5	40	60	100	4
14CE306	Engineering Geology	4	0	0	0	4	40	60	100	3
14CEL301	Engineering Geology Laboratory	0	0	3	0	3	40	60	100	2
14CEL302	Surveying Field Work – I	0	0	3	0	3	40	60	100	2
14CEL303	Building Planning and Drawing Laboratory	0	0	3	0	3	40	60	100	2
	<b>TOTAL</b>	<b>24</b>	<b>2</b>	<b>9</b>	<b>1</b>	<b>36</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>26</b>

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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
14CE402	Professional Ethics and Human values	4	0	0	0	4	40	60	100	3
14CE403	Surveying-II	4	0	0	1	5	40	60	100	3
14CE404	Solid Mechanics - II	4	1	0	0	5	40	60	100	4
14CE405	Hydraulics & Hydraulic Machines	4	1	0	0	5	40	60	100	4
14CE406	Environmental Engineering - I	4	0	0	0	4	40	60	100	3
14ELL401	Soft Skills Laboratory	0	0	3	0	3	40	60	100	2
14CEL402	Environmental Engineering Laboratory	0	0	3	0	3	40	60	100	2
14CEL403	Materials Testing Laboratory	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	
14CE501	Structural Analysis - I	4	1	0	0	5	40	60	100	4
14CE502	Water Resource Engineering-I	4	0	0	0	4	40	60	100	3
14CE503	Design of Concrete Structures-I	4	1	0	0	5	40	60	100	4
14CE504	Environmental Engineering - II	4	0	0	0	4	40	60	100	3
14CE505	Geo-Technical Engineering - I	4	0	0	1	5	40	60	100	3
<b>14CE506</b>	<b>Elective-I</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>3</b>
14CEL501	Hydraulics & Hydraulic Machines Laboratory	0	0	3	0	3	40	60	100	2
14CEL502	Geo-Technical Engineering Laboratory	0	0	3	0	3	40	60	100	2
14CEL503	Computer Applications in Civil Engineering Laboratory	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

**Elective-I**

**14CE506/A: Remote Sensing and GIS**

**14CE506/B: Rock Mechanics**

**14CE506/C: Low cost Housing Techniques**

**14CE506/D: Building Technology**

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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	
14CE601	Structural Analysis - II	4	1	0	0	5	40	60	100	4
14CE602	Water Resource Engineering-II	4	0	0	0	4	40	60	100	3
14CE603	Design of Concrete Structures-II	4	0	0	1	5	40	60	100	3
14CE604	Design of Steel Structures-I	4	1	0	0	5	40	60	100	4
14CE605	Geotechnical Engineering - II	4	0	0	0	4	40	60	100	3
<b>14CE606</b>	<b>Elective - II</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>3</b>
14CEL601	Surveying Field Work - II	0	0	3	0	3	40	60	100	2
14CEL602	Computer Aided Analysis ,Design and Detailing of Structures-I Lab	0	0	3	0	3	40	60	100	2
14CEL603	Computer Aided Design and Detailing of Irrigation Structures Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

**Elective – II**

**14CE606/A: Advanced Surveying**

**14CE606/B: Repair and Rehabilitation of Structures**

**14CE606/C: Environmental Geotechnics**

**14CE606/D: Geosynthetics**

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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	
14CE701	Transportation Engineering - I	4	0	0	0	4	40	60	100	3
14CE702	Design of Steel Structures-II	4	1	0	0	5	40	60	100	4
14CE703	Estimation & Quantity Surveying	4	0	0	0	4	40	60	100	3
14CE704	Pre-stressed Concrete	4	0	0	0	4	40	60	100	3
<b>14CE705</b>	<b>Elective - III</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>4</b>
<b>14OE706</b>	<b>Open Elective</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>3</b>
14ELL701	Business Communication and Presentation Skills Lab	0	0	2	0	2	20	30	50	1
14CEL702	Computer Aided Analysis ,Design and Detailing of Structures-II Lab	0	0	3	0	3	40	60	100	2
14CEL703	Transportation Engineering Laboratory	0	0	3	0	3	40	60	100	2
14CEL704	Term paper	0	0	2	0	2	20	30	50	1
	TOTAL	24	2	10	0	36	360	540	900	26

**Elective – III:**

- 14CE705/A: Advanced Structural Analysis**  
**14CE705/B: Advanced Foundation Engineering**  
**14CE705/C: Environmental Impact Assessment and Management**  
**14CE705/D: Structural Dynamics**

**Open Elective:**

**The students of CE will choose an Inter department Elective offered by other Departments.**

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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	
14CE801	Transportation Engineering - II	4	0	0	0	4	40	60	100	3
14CE802	Construction Management	4	0	0	0	4	40	60	100	3
<b>14CE803</b>	<b>Elective-IV</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>4</b>
<b>14CE804</b>	<b>Elective – V</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>3</b>
14CEPR801	Project work	0	0	12	0	12	50	100	150	10
14CEL802	Quantity Estimation & Project Management	0	0	3	0	3	40	60	100	2
	TOTAL	16	1	15	1	33	250	400	650	25

**Elective IV**

- 14CE 803/A: Finite Element Analysis**
- 14CE 803/B: Bridge Engineering**
- 14CE 803/C: Advanced Environmental Engineering**
- 14CE 803/D: Ground Improvement Techniques**

**Elective V**

- 14CE 804/A: Advanced Design of Concrete Structures**
- 14CE 804/B: Pavement Analysis and Design**
- 14CE 804/C: Earthquake Resistant Design of Structures**
- 14CE 804/D: Ground Water Development and Management**