



# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

First Year B.Tech., (SEMESTER I)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18MA001	Linear Algebra and Ordinary Differential Equations	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
18EE001	Basic Electrical & Electronics Engineering	4	0	0	4	50	50	100	3
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
18EEL01	Basic Electrical & Electronics Engineering Lab	0	0	3	3	50	50	100	1
	<b>TOTAL</b>	<b>16</b>	<b>0</b>	<b>13</b>	<b>29</b>	<b>400</b>	<b>400</b>	<b>800</b>	<b>17</b>

**CIE:** Continuous Internal Evaluation

**SEE:** Semester End Examination

**Lec :**Lecture    **Tut :** Tutorial

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# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

First Year B.Tech., (SEMESTER II)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18MA002	Numerical Methods And Advanced Calculus	4	0	0	4	50	50	100	3
18PH001	Semiconductor Physics	4	1	0	5	50	50	100	4
18IT203	Professional Ethics & Human Values	3	0	0	3	50	50	100	3
18IT204	Digital Logic Design	3	1	0	4	50	50	100	3
18EL001	Communicative English	3	0	0	3	50	50	100	2
18CS001	Problem Solving with Programming	4	0	0	4	50	50	100	3
18PHL01	Semiconductor Physics Lab	0	0	3	3	50	50	100	1
18ELL01	Communicative English Lab	0	0	3	3	50	50	100	1
18CSL01	Problem Solving with Programming Lab	0	0	3	3	50	50	100	1
	<b>TOTAL</b>	<b>21</b>	<b>2</b>	<b>9</b>	<b>32</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>21</b>

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# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

Second Year B.Tech., (SEMESTER III)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18IT301	Computer Organization & Architecture	3	1	0	4	50	50	100	3
18IT302	Data Structures	3	1	0	4	50	50	100	3
18IT303	Discrete Mathematics	3	1	0	4	50	50	100	3
18IT304	Object Oriented Programming	3	1	0	4	50	50	100	3
18IT305	Operating Systems	4	0	0	4	50	50	100	3
18EL002	Technical English	3	0	0	3	50	50	100	2
18ITL31	Data Structures Lab	0	0	3	3	50	50	100	1
18ITL32	Object Oriented Programming Lab	0	0	3	3	50	50	100	1
18ITL33	Operating system Lab	0	0	3	3	50	50	100	1
	<b>TOTAL</b>	<b>19</b>	<b>4</b>	<b>9</b>	<b>32</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>20</b>

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# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

Second Year B.Tech., (SEMESTER IV)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18MA003	Probability & Statistics	3	0	2	5	50	50	100	3
18IT402	Web Technologies	3	1	0	4	50	50	100	3
18IT403	Database Management Systems	3	1	0	4	40	50	100	3
18IT404	Script Programming	3	1	0	4	50	50	100	3
18IT405	Computer Networks	3	0	2	5	50	50	100	3
18IT406	Design & Analysis of Algorithms	3	1	0	4	50	50	100	3
18ITL41	Web Technologies Lab	0	0	3	3	50	50	100	1
18ITL42	RDBMS Lab	0	0	3	3	50	50	100	1
18ITL43	Script Programming Lab	0	0	3	3	50	50	100	1
	<b>TOTAL</b>	<b>18</b>	<b>4</b>	<b>13</b>	<b>35</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>21</b>

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# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

Third Year B.Tech., (SEMESTER V)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18IT501	Software Engineering	4	0	0	4	50	50	100	3
18IT502	Automata & Compiler Design	3	1	0	4	50	50	100	3
18IT503	Enterprise Programming	4	0	0	4	50	50	100	3
18IT504	Signals & Systems	3	0	2	5	50	50	100	3
18IT505	Machine Learning	3	1	0	4	50	50	100	3
<b>18ITD1</b>	<b>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>
18ITL51	Enterprise Programming Lab	0	0	3	3	50	50	100	1
18ITL52	Machine Learning Lab	0	0	3	3	50	50	100	1
<b>18ITDL53</b>	<b>Elective - I 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>
18ITM01	MOOC								2
	<b>TOTAL</b>	<b>21</b>	<b>2</b>	<b>11</b>	<b>34</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>23</b>

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**Elective-I:**

**18ITD11 Parallel Computing**

**18ITD12 Distributed Databases**

**18ITD13 Artificial Intelligence**

**18ITD14 Computer Graphics**



# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

Third Year B.Tech., (SEMESTER VI)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18IT601	Human Computer Interaction	4	0	0	4	50	50	100	3
18IT602	Deep Learning	4	0	0	4	50	50	100	3
18IT603	Cryptography & Network Security	4	0	0	4	50	50	100	3
18IT604	Internet of Things	3	0	2	5	50	50	100	3
<b>18ITD2</b>	<b>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>18ITD3</b>	<b>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>
18ELL02	Soft Skills Lab	0	0	3	3	50	50	100	1
18ITL62	Deep Learning Lab	0	0	3	3	50	50	100	1
<b>18ITDL63</b>	<b>Elective II &amp; III 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>23</b>	<b>0</b>	<b>11</b>	<b>34</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>21</b>

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### **Elective-II:**

**18ITD21 Software Testing Methodologies**

**18ITD22 Mobile Computing**

**18ITD23 Big Data Analytics**

**18ITD24 Natural Language Processing**

### **Elective-III:**

**18ITD31 Software Design Patterns**

**18ITD32 Game Theory**

**18ITD33 Digital Image Processing**

**18ITD34 Distributed Computing**



# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

Third Year B.Tech., (SEMESTER VII)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18IT701	Cloud Computing	4	0	0	4	50	50	100	3
18IT702	Digital Forensics	4	0	0	4	50	50	100	3
<b>18ITD4</b>	<b>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>
<b>18ITI01</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>18ITD5</b>	<b>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>
18HU001	Constitution of India	3	0	0	3	50	50	100	0
18ITL71	Cloud Computing Lab	0	0	3	3	50	50	100	1
18ITL72	Digital Forensics Lab	0	0	3	3	50	50	100	1
18ITP01	Project-I	0	0	6	6	50	50	100	2
18ITIT1	Internship					100		100	2
	<b>TOTAL</b>	<b>23</b>	<b>0</b>	<b>12</b>	<b>35</b>	<b>550</b>	<b>450</b>	<b>1000</b>	<b>21</b>

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### Elective -IV:

**18ITD41 Software Project Management**  
**18ITD42 Adhoc & Sensor Networks**  
**18ITD43 Database Security**  
**18ITD44 Pattern Recognition**

### Elective -V:

**18ITD51 Healthcare Informatics**  
**18ITD52 Block Chain Technology**  
**18ITD53 Bio-Informatics**  
**18ITD54 Information Retrieval**

\* Refer appendix for the list of Open Elective courses



# BAPATLA ENGINEERING COLLEGE:: BAPATLA (Autonomous)

## SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

Final Year B.Tech., (SEMESTER VIII)

For

*Information Technology*

With Effective From 2018-2019 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)				Scheme of Examination (Maximum marks)			No. of Credits
		Lec	Tut	Pra	Total	CIE	SEE	Total	
18ME002	Industrial Management & Entrepreneurship Development	4	0	0	4	50	50	100	3
<b>18ITI02</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>18ITD6</b>	<b>Elective -VI</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>18ITL81</b>	<b>Elective VI 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>
18ITP02	Project-II	0	0	16	16	50	50	100	10
	<b>TOTAL</b>	<b>12</b>	<b>0</b>	<b>19</b>	<b>31</b>	<b>250</b>	<b>250</b>	<b>500</b>	<b>20</b>

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**Pra :** Practical

**Elective- VI:**

**18ITD61 Mobile App Development**

**18ITD62 Computer Animation**

**18ITD63 Object Oriented Analysis and Design**

**18ITD64 Game Design**