

**COURSE STURCTURE –  
R10 Regulation  
ECE & IT**

**I Year**

I Semester		C	II Semester		C
1	English – I	2	1	English – II	2
2	Mathematics - I	2	2	Mathematics – II	2
3	Engineering Physics – I	2	3	Engineering Physics – II	2
4	Engineering Chemistry I	2	4	Engineering Chemistry-- II	2
5	C Programming	2	5	Engineering Drawing	2
6	Environmental Studies	2	6	Mathematical Methods	2
7	Engineering Physics & Engineering Chemistry Laboratory -I	2	7	Engineering Physics & Engineering Chemistry Laboratory -II	2
8	Engineering Workshop (Carpentry, Fitting, House wiring, )	2	8	English - Communication Skills Lab	2
9	C Programming Lab	2	9	IT Workshop	2
10	English Proficiency Lab	2			
		<b>20</b>			<b>18</b>

**(CSE, EEE, CIVIL,)**

**I Year**

I Semester		C	II Semester		C
1	English – I	2	1	English – II	2
2	Mathematics - I	2	2	Mathematics – II	2
3	Engineering Physics – I	2	3	Engineering Physics – II	2
4	Engineering Chemistry I	2	4	Engineering Chemistry-- II	2
5	C Programming	2	5	Engineering Drawing	2
6	Mathematical Methods	2	6	Environmental Studies	2
7	Engineering Physics & Engineering Chemistry Laboratory -I	2	7	Engineering Physics & Engineering Chemistry Laboratory -II	2
8	Engineering Workshop (Carpentry, Fitting, House wiring, )	2	8	English - Communication Skills Lab	2
9	C Programming Lab	2	9	IT Workshop	2
10	English Proficiency Lab	2			
		<b>20</b>			<b>18</b>

**R10 Regulation  
II B.Tech**

**(Electronics and Communication Engineering)**

<b>II Year I Sem</b>		<b>C</b>
<b>S.No.</b>	<b>Subject</b>	<b>C</b>
1	Managerial Economics and Financial Analysis	4
2	Electronic Devices and Circuits	4
3	Probability Theory & Stochastic Processes	4
4	Network Analysis	4
5	Signals & Systems	4
6	Electrical Technology	4
7	EDC Lab	2
8	Networks & Electrical Technology Lab	2
9	English Communication Practice	-
		<b>28</b>

<b>II Year II Sem</b>		<b>C</b>
<b>S.No.</b>	<b>Subject</b>	<b>C</b>
1	Electronic Circuit Analysis	4
2	Control Systems	4
3	Pulse & Digital Circuits	4
4	Switching Theory & Logic Design	4
5	EM Waves and Transmission Lines	4
6	Analog Communications	4
7	Electronic Circuit Analysis Lab	2
8	Pulse & Digital Circuits Lab	2
9	English Communication Practice	2
		<b>30</b>

**II Year – I Semester**

S. No.	Subject	Credits
1	Mathematics – III	4
2	Electrical and Electronics Engineering	4
3	Mechanics of Materials	4
4	Construction Materials and Management	4
5	Surveying	4
6	Fluid Mechanics	4
7	Engineering Drawing – II	2
8	Strength of materials Lab	2
9	English communication Practice	0
	Total	28

**II Year – II Semester**

SI No.	Subject	Theory	Credits
1	Probability & Statistics	4+1*	4
2	Managerial Economics and Financial Analysis	4+1*	4
3	Strength of Materials	4+1*	4
4	Hydraulics and Hydraulic Machinery	4+1*	4
5	Engineering Geology	4	4
6	Structural Analysis - I	4+1*	4
7	Fluid Mechanics and Hydraulic Machinery Lab	3	2
8	Surveying Field work	3	2
9	English communication Practice	2	2
	Total		30

## II – I

S. No.	Subject	Credits
1.	Managerial Economics and Financial Analysis	4
2.	Probability & Statistics	4
3.	Mathematical Foundations of Computer Science	4
4.	Digital Logic Design	4
5.	Electronics Devices & Circuits (EDC)	4
6.	Data Structures	4
7.	EDC Lab	2
8.	Data Structures Lab	2
9.	Professional Communicational skills	0
	<b>6 Theory + 3 Laboratories.</b>	<b>28</b>

<b>II Year I Sem</b>			
<b>S.No.</b>	<b>Subject</b>	<b>P</b>	<b>C</b>
1	Electrical Circuit Analysis-I	4	4
2	Fluid Mechanics & Hydraulic Machines	4	4
3	Electronic Devices and Circuits	4	4
4	Pulse & Digital Circuits	4	4
5	Electro Magnetic Fields	4	4
6	Electrical Machines-I	4	4
7	FM & HM Lab	3	2
8	Electronic Devices & Circuits Lab	3	2
9	English Communication Practice	2	-
<b>Total Credits</b>			<b>28</b>

<b>II Year II Sem</b>			
<b>S.No.</b>	<b>Subject</b>	<b>P</b>	<b>C</b>
1	Electrical Circuit Analysis-II	4	4
2	Switching Theory and Logic Design	4	4
3	Managerial Economics and Principles of Accountancy	4	4
4	Power Systems-I	4	4
5	Electrical Machines-II	4	4
6	Control Systems	4	4
7	EM-I Lab	3	2
8	Electrical Circuits & Simulation Lab	3	2
9	English Communication Practice	2	2
<b>Total Credits</b>			<b>30</b>

**R07****Regulation****III Year I Semester - ECE**

<b>SI.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
1	Managerial Economics and Financial Analysis	4
2	Computer Organization	4
3	Linear IC Applications	4
4	Digital IC Applications	4
5	Antennas and Wave Propagation	4
6	Digital Communications	4
7	Digital Communications Lab	2
8	IC Applications and ECAD Lab	2
		<b>28</b>

**III YEAR II Semester - ECE**

<b>SI.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
1	Management Science	4
2	Telecommunication Switching Systems	4
3	Digital Signal Processing	4
4	VLSI Design	4
5	Microwave Engineering	4
6	Microprocessors and Interfacing	4
7	Electronic Computer Aided Design Lab.	2
8	Advanced English Communication Skills Lab	2
		<b>28</b>

**R07****Regulation****III Year I Semester - CSE**

<b>Sl.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Formal Languages and Automata Theory	<b>4</b>
<b>2</b>	Software Testing Methodologies	<b>4</b>
<b>3</b>	Computer Graphics	<b>4</b>
<b>4</b>	Microprocessors and Interfacing	<b>4</b>
<b>5</b>	Data Communication Systems	<b>4</b>
<b>6</b>	Design and Analysis of Algorithms	<b>4</b>
<b>7</b>	Advanced English Communication Skills Lab	<b>2</b>
<b>8</b>	Microprocessors and Interfacing Lab	<b>2</b>
		<b>28</b>

**III Year II Semester - CSE**

<b>Sl.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Operating Systems	<b>4</b>
<b>2</b>	Compiler Design	<b>4</b>
<b>3</b>	Computer Networks	<b>4</b>
<b>4</b>	Information Security	<b>4</b>
<b>5</b>	Artificial Intelligence and Neural Networks	<b>4</b>
<b>6</b>	Object Oriented Analysis and Design	<b>4</b>
<b>7</b>	Computer Networks and Case Tools Lab	<b>2</b>
<b>8</b>	Operating systems and Compiler Design Lab	<b>2</b>
		<b>28</b>

**III YEAR I Semester – IT**

<b>Sl.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Automata and Compiler Design	<b>4</b>
<b>2</b>	Data Communication Systems	<b>4</b>
<b>3</b>	Microprocessor and Interfacing	<b>4</b>
<b>4</b>	Computer Graphics	<b>4</b>
<b>5</b>	Distributed Databases	<b>4</b>
<b>6</b>	Software Testing Methodologies	<b>4</b>
<b>7</b>	Advanced English Communication Skills Lab	<b>2</b>
<b>8</b>	Microprocessors and interfacing Lab	<b>2</b>
		<b>28</b>

**III YEAR II Semester - IT**

<b>Sl.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Web Technologies	<b>4</b>
<b>2</b>	Computer Networks	<b>4</b>
<b>3</b>	E-Commerce	<b>4</b>
<b>4</b>	Middleware Technologies	<b>4</b>
<b>5</b>	Data Warehousing and Data Mining	<b>4</b>
<b>6</b>	Object Oriented Analysis and Design	<b>4</b>
<b>7</b>	Computer Networks and Case Tools Lab	<b>2</b>
<b>8</b>	Web Technologies Lab	<b>2</b>
		<b>28</b>



**IV Year I Semester - ECE**

Sl.No	SUBJECT	CREDITS
1	Computer Networks	4
2	Electronic Measurements & Instrumentation	4
3	Cellular and Mobile Communications	4
4	Radar Systems	4
5	<b>Elective-I</b>	4
	Micro Controllers and Applications	
	Television Engineering	
	Operating Systems	
6	<b>Elective-II</b>	4
	Digital Image Processing	
	Satellite Communications	
	Data Base Management Systems	
7	Microwave and Optical Communications Lab	2
8	Digital Signal Processing Lab	2
		28

**IV Year II Semester - ECE**

Sl.No	SUBJECT	CREDITS
1	Optical Communications	4
2	<b>Elective-III</b>	4
	Embedded and Real Time Systems	
	Bio-Medical Instrumentation	
	Digital Design Through Verilog	
3	<b>Elective-IV</b>	4
	Wireless Communications and Networks	
	DSP Processors and Architectures	
	Artificial Neural Networks	
4	Industry Oriented Mini Project	2
5	Seminar	2
6	Project Work	10
7	Comprehensive Viva	2
		28

**R07****Regulation****IV Year I Semester CSE**

<b>SI.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Network Programming	<b>4</b>
<b>2</b>	Web Technologies	<b>4</b>
	Data Warehousing and Data Mining	<b>4</b>
	Advanced Computer Architecture	<b>4</b>
<b>3</b>	<b>ELECTIVE –I</b>	<b>4</b>
	Embedded Systems	
	Mobile Computing	
	Multimedia and Application Development	
<b>4</b>	<b>ELECTIVE – II</b>	<b>4</b>
	Software Project Management	
	Advanced Computing Concepts	
	Network Management Systems	
<b>5</b>	Network Programming Lab	<b>2</b>
<b>6</b>	Web Technologies Lab	<b>2</b>
		<b>28</b>

**IV Year II Semester -CSE**

<b>SI.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Management Science	<b>4</b>
<b>2</b>	<b>ELECTIVE III</b>	<b>4</b>
	Image Processing	
	E-Commerce	
<b>3</b>	Distributed Databases	
<b>4</b>	<b>ELECTIVE – IV</b>	<b>4</b>
	Virtual Reality	
	Human Computer Interaction	
	Design Patterns	
<b>5</b>	Industry Oriented Mini Project	<b>2</b>
<b>6</b>	Seminar	<b>2</b>
<b>7</b>	Project Work	<b>10</b>
<b>8</b>	Comprehensive Viva	<b>2</b>
		<b>28</b>

**R07****Regulation****IV YEAR I Semester- IT**

<b>Sl.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Multimedia and Application Development	<b>4</b>
<b>2</b>	Embedded Systems	<b>4</b>
<b>3</b>	Network Programming	<b>4</b>
<b>4</b>	Mobile Computing	<b>4</b>
<b>5</b>	<b>ELECTIVE - I</b>	<b>4</b>
	Information Retrieval Systems	
	Information Security	
	Virtual Reality	
	Human Computer Interaction	
<b>6</b>	<b>ELECTIVE – II</b>	<b>4</b>
	Software Project Management	
	Advanced computing concepts	
	Image Processing	
<b>7</b>	Network Programming lab	<b>2</b>
<b>8</b>	Multimedia and Application Development Lab	<b>2</b>
		<b>28</b>

**IV YEAR II Semester - IT**

<b>Sl.No</b>	<b>SUBJECT</b>	<b>CREDITS</b>
<b>1</b>	Management Science	<b>4</b>
<b>2</b>	<b>ELECTIVE - III</b>	<b>4</b>
	Multimedia Databases	
	Network Management Systems	
	Biometrics	
<b>3</b>	<b>ELECTIVE – IV</b>	<b>4</b>
	Bio-informatics	
	Design Patterns	
	Pattern Recognition	
<b>4</b>	Industry Oriented Mini Project	<b>2</b>
<b>5</b>	Seminar	<b>2</b>
<b>6</b>	Project Work	<b>10</b>
<b>7</b>	Comprehensive Viva	<b>2</b>
		<b>28</b>