

BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING)

First Year:

1st Semester

Teaching Scheme					Contact Hours/Week			Exam Duration (h)		Relative Weights (%)				
S. No.	Subject Code	Course Title	Subject Area	Credit	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Group A														
1	MA101	Mathematics - I	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP101	Physics – I	ASC	4	3	0	2	3	0	15	15	30	40	-
3	AC101	Chemistry	ASC	4	3	0	2	3	0	15	15	30	40	-
4	ME101	Basic Mechanical Engineering	AEC	4	4	0	0	3	0	25	-	25	50	-
5	ME103	Workshop Practice	AEC	2	0	0	3	0	3	-	50	-	-	50
6	HU101	Communication Skills	HMC	3	3	0	0	3	0	25	-	25	50	-
Total				21	16	1	7							
Group B														
1	MA101	Mathematics - I	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP101	Physics – I	ASC	4	3	0	2	3	0	15	15	30	40	-
3	EE101	Basic Electrical Engineering	AEC	4	3	0	2	3	0	15	15	30	40	-
4	CO101	Programming Fundamentals	AEC	4	3	0	2	3	0	15	15	30	40	-
5	ME105	Engineering Graphics	AEC	2	0	0	3	0	3	-	50	-	-	50
6	EN101	Introduction to Environmental Science	AEC	3	3	0	0	3	0	25	-	25	50	-
Total				21	15	1	9							

List of Departmental Elective Courses

S.No	Subject Code	Subject	Elective no.
1.	CO 305	Information Theory and coding	DEC-1, 2
2.	CO 307	Digital Signal Processing	
3.	CO 309	Advanced Data Structures	
4.	CO 311	Microprocessors and Interfacing	
5.	CO 313	Computer Graphics	
6.	CO 315	Optimization Techniques	
7.	CO 317	Soft Computing	
8.	CO 319	Telecommunication Engineering Fundamentals	
9.	CO 321	Embedded Systems	
10.	CO 323	Data Compression	
11.	CO 308	Parallel Algorithms	DEC-3, 4
12.	CO 310	Distributed Systems	
13.	CO 312	Communications Engineering	
14.	CO 314	Optical Networks	
15.	CO 316	High Speed Networks	
16.	CO 318	Advanced Database Management Systems	
17.	CO 320	Multimedia System Design	
18.	CO 322	Real Time System	
19.	CO 324	Genetic Algorithms and Machine Learning	
20.	CO 326	Object Oriented Software Engineering	
21.	CO 409	Robotics	DEC-5, 6
22.	CO 411	Computer Vision	
23.	CO 413	VLSI Design	
24.	CO 415	Wireless and Mobile Computing	
25.	CO 417	Software Project Management	
26.	CO 419	High Performance Computing	
27.	CO 421	Grid and Cluster Computing	
28.	CO 423	Swarm Optimization & Evolutionary Computing	
29.	CO 425	Pattern Recognition	
30.	CO-427	Web Technology and Java Programming	
31.	CO 406	Parallel Computer Architecture	DEC-7 and DEC-8
32.	CO 408	Intellectual Property Rights	
33.	CO 410	Bio Informatics	
34.	CO 412	Software Quality and Testing	
35.	CO 414	Big Data Analytics	
36.	CO 416	Cloud Computing	
37.	CO 418	Natural Language Processing	
38.	CO 420	Cyber Forensics	
39.	CO 422	Semantic Web and Web Mining	
40.	CO 424	Software Metrics and Software Project Management	

Table-4 University Elective Courses

S.No.	SUBJECT CODE	SUBJECTS
1.	CO351	Enterprise & Java Programming
2.	CO353	E-commerce & ERP
3.	CO355	Cryptography & Information Security
4.	CO357	Operating System
5.	CO359	Intellectual Property Rights & Cyber Laws
6.	EC351	Mechatronics
7.	EC353	Computer Vision
8.	EC355	Embedded System
9.	EC357	Digital Image Processing
10.	EC359	VLSI Design
11.	EE351	Power Electronics Systems
12.	EE353	Electrical Machines and Power Systems
13.	EE355	Instrumentation Systems
14.	EE357	Utilization of Electrical Energy
15.	EE359	Non-conventional Energy Systems
16.	EE361	Embedded Systems
17.	EN351	Environmental Pollution & E-Waste Management
18.	EN353	Occupational Health & Safety Management
19.	EN355	GIS & Remote Sensing
20.	EP351	Physics of Engineering Materials
21.	EP353	Nuclear Security
22.	HU351	Econometrics
23.	MA351	History Culture & Excitement of Mathematics
24.	ME351	Power Plant Engineering
25.	ME353	Renewable Sources of Energy
26.	ME355	Combustion Generated Pollution
27.	ME357	Thermal System
28.	ME359	Refrigeration & Air Conditioning
29.	ME361	Industrial Engineering
30.	ME363	Product Design & Simulation
31.	ME365	Computational fluid dynamics
32.	ME367	Finite Element Methods
33.	ME369	Total Life Cycle Management
34.	ME371	Value Engineering
35.	MG351	Fundamentals of Financial Accounting and Analysis
36.	MG353	Fundamentals of Marketing
37.	MG355	Human Resource Management
38.	MG357	Knowledge and Technology Management
39.	PE351	Advance Machining Process
40.	PE 353	Supply Chain Management
41.	PE355	Work Study Design
42.	PE357	Product Design & Simulation
43.	PE359	Total Life Cycle Management
44.	PE361	Total Quality Management
45.	PT361	High Performance Polymers
46.	P7363	Separation Technology
47.	PT365	Non-Conventional Energy
48.	PT367	Polymer Waste Management
49.	PT369	Nanotechnology in Polymers
50.	PT371	Applications of Polymer Blends and Composite

BACHELOR OF TECHNOLOGY (SOFTWARE ENGINEERING)

First Year:

1st Semester

Teaching Scheme					Contact Hours/Week			Exam Duration (h)		Relative Weights (%)				
S. No.	Subject Code	Course Title	Subject Area	Credit	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Group A														
1	MA101	Mathematics - I	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP101	Physics - I	ASC	4	3	0	2	3	0	15	15	30	40	-
3	AC101	Chemistry	ASC	4	3	0	2	3	0	15	15	30	40	-
4	ME101	Basic Mechanical Engineering	AEC	4	4	0	0	3	0	25	-	25	50	-
5	ME103	Workshop Practice	AEC	2	0	0	3	0	3	-	50	-	-	50
6	HU101	Communication Skills	HMC	3	3	0	0	3	0	25	-	25	50	-
Total				21	16	1	7							
Group B														
1	MA101	Mathematics - I	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP101	Physics - I	ASC	4	3	0	2	3	0	15	15	30	40	-
3	EE101	Basic Electrical Engineering	AEC	4	3	0	2	3	0	15	15	30	40	-
4	CO101	Programming Fundamentals	AEC	4	3	0	2	3	0	15	15	30	40	-
5	ME105	Engineering Graphics	AEC	2	0	0	3	0	3	-	50	-	-	50
6	EN101	Introduction to Environmental Science	AEC	3	3	0	0	3	0	25	-	25	50	-
Total				21	15	1	9							

2nd Semester

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weights (%)				
S. No.	Subject Code	Course Title	Subject Area	Credit	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Group A														
1	MA102	Mathematics - II	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP102	Physics - II	ASC	4	3	0	2	3	0	15	15	30	40	-
3	EE102	Basic Electrical Engineering	AEC	4	3	0	2	3	0	15	15	30	40	-
4	CO102	Programming Fundamentals	AEC	4	3	0	2	3	0	15	15	30	40	-
5	ME102	Engineering Graphics	AEC	2	0	0	3	0	3	-	50	-	-	50
6	EN102	Introduction to Environmental Science	AEC	3	3	0	0	3	0	25	-	25	50	-
Total				21	15	1	9							
Group B														
1	MA102	Mathematics - II	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP102	Physics - II	ASC	4	3	0	2	3	0	15	15	30	40	-
3	AC102	Chemistry	ASC	4	3	0	2	3	0	15	15	30	40	-
4	ME104	Basic Mechanical Engineering	AEC	4	4	0	0	3	0	25	-	25	50	-
5	ME106	Workshop Practice	AEC	2	0	0	3	0	3	-	50	-	-	50
6	HU102	Communication Skills	HMC	3	3	0	0	3	0	25	-	25	50	-
Total				21	16	1	7							

List of Departmental Elective Courses

	Subject Code	Subject	Term	
1.	SE 305	Computer Graphics	DEC-1, 2	
2.	SE 307	Information Theory and coding		
3.	SE 309	Digital Signal Processing		
4.	SE 311	Advanced Data Structures		
5.	SE 313	Microprocessor & Interfacing		
6.	SE 308	Distributed Systems		
7.	SE 310	Soft Computing		
8.	SE 312	Artificial Intelligence		
9.	SE 314	Agile Software Process		
10.	SE 316	Data Compression		
11.	SE 318	Digital Image Processing	DEC-3, 4	
12.	SE 320	Multimedia Systems		
13.	SE 322	Parallel Computer Architecture		
14.	SE 324	Bio-Informatics		
15.	SE 326	Natural Language Processing		
16.	SE 409	Advanced Database Management Systems		
17.	SE 411	Compiler Design		
18.	SE 413	Real Time Systems		
19.	SE 415	Parallel Algorithms		
20.	SE 417	Software Architecture		
21.	SE 419	Pattern Recognition	DEC-5, 6	
22.	SE 421	Data Mining & Warehousing		
23.	SE 423	Human Computer Interaction		
24.	SE 425	Cyber-Forensics		
25.	SE 427	Software Quality & Metrics		
26.	SE 429	Robotics		
27.	SE 431	Machine Learning		
28.	SE 433	Distributed Databases		
29.	SE 435	Software Reuse		
30.	SE 437	Intellectual Property Rights & Cyber Laws		
31.	SE 406	Information & Network Security		DEC-7,8
32.	SE 408	Wireless Sensor Networks		
33.	SE 410	Empirical Software Engineering		
34.	SE 412	Semantic Web and Web Mining		
35.	SE 414	Decision Support Systems		
36.	SE 416	Cloud Computing		
37.	SE 418	Enterprise Resource Planning (ERP)		
38.	SE 420	Big Data Analytics		
39.	SE 422	Wireless and Mobile Computing		
40.	SE 424	Requirement Engineering		

Table-4 University Elective Courses

S.No.	SUBJECT CODE	SUBJECTS
1.	CO351	Enterprise & Java Programming
2.	CO353	E-commerce & ERP
3.	CO355	Cryptography & Information Security
4.	CO357	Operating System
5.	CO359	Intellectual Property Rights & Cyber Laws
6.	EC351	Mechatronics
7.	EC353	Computer Vision
8.	EC355	Embedded System
9.	EC357	Digital Image Processing
10.	EC359	VLSI Design
11.	EE351	Power Electronics Systems
12.	EE353	Electrical Machines and Power Systems
13.	EE355	Instrumentation Systems
14.	EE357	Utilization of Electrical Energy
15.	EE359	Non-conventional Energy Systems
16.	EE361	Embedded Systems
17.	EN351	Environmental Pollution & E- Waste Management
18.	EN353	Occupational Health & Safety Management
19.	EN355	GIS & Remote Sensing
20.	EP351	Physics of Engineering Materials
21.	EP353	Nuclear Security
22.	HU351	Econometrics
23.	MA351	History Culture & Excitement of Mathematics
24.	ME351	Power Plant Engineering
25.	ME353	Renewable Sources of Energy
26.	ME355	Combustion Generated Pollution
27.	ME357	Thermal System
28.	ME359	Refrigeration & Air Conditioning
29.	ME361	Industrial Engineering
30.	ME363	Product Design & Simulation
31.	ME365	Computational fluid dynamics
32.	ME367	Finite Element Methods
33.	ME369	Total Life Cycle Management
34.	ME371	Value Engineering
35.	MG351	Fundamentals of Financial Accounting and Analysis
36.	MG353	Fundamentals of Marketing
37.	MG355	Human Resource Management
38.	MG357	Knowledge and Technology Management
39.	PE351	Advance Machining Process
40.	PE 353	Supply Chain Management
41.	PE355	Work Study Design
42.	PE357	Product Design & Simulation
43.	PE359	Total Life Cycle Management
44.	PE361	Total Quality Management
45.	PT361	High Performance Polymers
46.	PT363	Separation Technology
47.	PT365	Non-Conventional Energy
48.	PT367	Polymer Waste Management
49.	PT369	Nanotechnology in Polymers
50.	PT371	Applications of Polymer Blends and Composite

BACHELOR OF TECHNOLOGY (INFORMATION TECHNOLOGY)

First Year:

1st Semester

Teaching Scheme					Contact Hours/Week			Exam Duration (h)		Relative Weights (%)				
S. No.	Subject Code	Course Title	Subject Area	Credit	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Group A														
1	MA101	Mathematics - I	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP101	Physics - I	ASC	4	3	0	2	3	0	15	15	30	40	-
3	AC101	Chemistry	ASC	4	3	0	2	3	0	15	15	30	40	-
4	ME101	Basic Mechanical Engineering	AEC	4	4	0	0	3	0	25	-	25	50	-
5	ME103	Workshop Practice	AEC	2	0	0	3	0	3	-	50	-	-	50
6	HU101	Communication Skills	HMC	3	3	0	0	3	0	25	-	25	50	-
Total				21	16	1	7							
Group B														
1	MA101	Mathematics - I	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP101	Physics - I	ASC	4	3	0	2	3	0	15	15	30	40	-
3	EE101	Basic Electrical Engineering	AEC	4	3	0	2	3	0	15	15	30	40	-
4	CO101	Programming Fundamentals	AEC	4	3	0	2	3	0	15	15	30	40	-
5	ME105	Engineering Graphics	AEC	2	0	0	3	0	3	-	50	-	-	50
6	EN101	Introduction to Environmental Science	AEC	3	3	0	0	3	0	25	-	25	50	-
Total				21	15	1	9							

2nd Semester

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weights (%)				
S. No.	Subject Code	Course Title	Subject Area	Credit	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Group A														
1	MA102	Mathematics - II	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP102	Physics - II	ASC	4	3	0	2	3	0	15	15	30	40	-
3	EE102	Basic Electrical Engineering	AEC	4	3	0	2	3	0	15	15	30	40	-
4	CO102	Programming Fundamentals	AEC	4	3	0	2	3	0	15	15	30	40	-
5	ME102	Engineering Graphics	AEC	2	0	0	3	0	3	-	50	-	-	50
6	EN102	Introduction to Environmental Science	AEC	3	3	0	0	3	0	25	-	25	50	-
Total				21	15	1	9							
Group B														
1	MA102	Mathematics - II	ASC	4	3	1	0	3	0	25	-	25	50	-
2	AP102	Physics - II	ASC	4	3	0	2	3	0	15	15	30	40	-
3	AC102	Chemistry	ASC	4	3	0	2	3	0	15	15	30	40	-
4	ME104	Basic Mechanical Engineering	AEC	4	4	0	0	3	0	25	-	25	50	-
5	ME108	Workshop Practice	AEC	2	0	0	3	0	3	-	50	-	-	50
6	HU102	Communication Skills	NMC	3	3	0	0	3	0	25	-	25	50	-
Total				21	16	1	7							

List of Departmental Elective Courses

S.No.	Subject Code	Subjects	Elective No.
1.	IT 305	Computer Graphics	DEC – 1, 2
2.	IT 307	Communication Engineering	
3.	IT 309	Artificial Intelligence	
4.	IT 311	Advanced Data Structures	
5.	IT 313	Microprocessor & Interfacing	
6.	IT 315	Distributed Systems	
7.	IT 317	Soft Computing	
8.	IT 319	Software Architecture	
9.	IT 321	Embedded Systems	
10.	IT 323	Data Compression	
11.	IT 308	Optimization Techniques	DEC – 3, 4
12.	IT 310	Parallel Algorithms	
13.	IT 312	Digital Signal Processing	
14.	IT 314	Optical Networks	
15.	IT 316	High Speed Networks	
16.	IT 318	Advanced Database Management Systems	
17.	IT 320	Multimedia System Design	
18.	IT 322	Real Time System	
19.	IT 324	Genetic Algorithms and Machine Learning	
20.	IT 326	Object Oriented Software Engineering	
21.	IT 409	Enterprise and Java Programming	DEC – 5, 6
22.	IT 411	Digital Image Processing	
23.	IT 413	VLSI Design	
24.	IT 415	Software Project Management	
25.	IT 417	High Performance Computing	
26.	IT 419	Grid and Cluster Computing	
27.	IT 421	Swarm Optimization & Evolutionary Computing	
28.	IT 423	Data Mining and data Warehousing	
29.	IT 425	Natural Language Processing	
30.	IT 427	Information and Network Security	
31.	IT 406	Cyber Forensics	DEC – 7, 8
32.	IT 408	Parallel Computer Architecture	
33.	IT 410	Intellectual Property Rights	
34.	IT 412	Bio Informatics	
35.	IT 414	Software Quality and Testing	
36.	IT 416	Big Data Analytics	
37.	IT 418	Cloud Computing	
38.	IT 420	Computer Vision	
39.	IT 422	Pattern Recognition	
40.	IT 424	Semantic Web and Web Mining	

Table-4 University Elective Courses

S.No.	SUBJECT CODE	SUBJECTS
1.	CO351	Enterprise & Java Programming
2.	CO353	E-commerce & ERP
3.	CO355	Cryptography & Information Security
4.	CO357	Operating System
5.	CO359	Intellectual Property Rights & Cyber Laws
6.	EC351	Mechatronics
7.	EC353	Computer Vision
8.	EC355	Embedded System
9.	EC357	Digital Image Processing
10.	EC359	VLSI Design
11.	EE351	Power Electronics Systems
12.	EE353	Electrical Machines and Power Systems
13.	EE355	Instrumentation Systems
14.	EE357	Utilization of Electrical Energy
15.	EE359	Non-conventional Energy Systems
16.	EE361	Embedded Systems
17.	EN351	Environmental Pollution & E- Waste Management
18.	EN353	Occupational Health & Safety Management
19.	EN355	GIS & Remote Sensing
20.	EP351	Physics of Engineering Materials
21.	EP353	Nuclear Security
22.	HU351	Econometrics
23.	MA351	History Culture & Excitement of Mathematics
24.	ME351	Power Plant Engineering
25.	ME353	Renewable Sources of Energy
26.	ME355	Combustion Generated Pollution
27.	ME357	Thermal System
28.	ME359	Refrigeration & Air Conditioning
29.	ME361	Industrial Engineering
30.	ME363	Product Design & Simulation
31.	ME365	Computational fluid dynamics
32.	ME367	Finite Element Methods
33.	ME369	Total Life Cycle Management
34.	ME371	Value Engineering
35.	MG351	Fundamentals of Financial Accounting and Analysis
36.	MG353	Fundamentals of Marketing
37.	MG355	Human Resource Management
38.	MG357	Knowledge and Technology Management
39.	PE351	Advance Machining Process
40.	PE 353	Supply Chain Management
41.	PE355	Work Study Design
42.	PE357	Product Design & Simulation
43.	PE359	Total Life Cycle Management
44.	PE361	Total Quality Management
45.	PT361	High Performance Polymers
46.	PT363	Separation Technology
47.	PT365	Non-Conventional Energy
48.	PT367	Polymer Waste Management
49.	PT369	Nanotechnology in Polymers
50.	PT371	Applications of Polymer Blends and Composite

