



Faculty of Engineering and Technology

Program Name: -Bachelor of Technology (Information Technology)

Program Code: ET105

Semester :- I

With Effect from: 2023-24

Course code	Course Name	Course Type	Credit	Hours per Week				Theory (Marks)				Practical (Marks)				Total (Marks)
				L	T	P	Total	SEE		CCA		SEE		CCA		
								Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1000101T	Engineering Mathematics-I with Computing Tools	BSC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000101P	Engineering Mathematics-I with Computing Tools Practical	BSC	1	0	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000103T	Applied Physics	BSC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000103P	Applied Physics Practical	BSC	1	0	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000106T	Elements of Civil and Mechanical Engineering	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000106P	Elements of Civil and Mechanical Engineering Practical	ESC	1	0	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000107T	Problem Solving with Computational Thinking	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000107P	Problem Solving with Computational Thinking Practical	ESC	1	0	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000108T	Engineering Graphics and Design	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000108P	Engineering Graphics and Design Practical	ESC	1	0	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000112P	IT workshop	PCC/ESC	1	0	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000116P	Yoga and Spirituality*		-	-	-	2	2	-	-	-	-	-	-	-	-	-
Total			21	15	0	14	29	120	300	80	200	60	150	60	150	800

L=Lecture, T=Tutorial, P=Practical

Note (if any):-



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Semester :- II

With Effect from: 2023-24

Course code	Course Name	Course Type	Credit	Hours per Week				Theory (Marks)				Practical (Marks)				Total (Marks)
				L	T	P	Total	SEE		CCA		SEE		CCA		
								Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1000102T	Engineering Mathematics-II with Computing Tools	BSC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1000102P	Engineering Mathematics-II with Computing Tools Practical	BSC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000105T	Communication Skill	HSMC	2	2	-		2	24	60	16	40	-	-	-	-	100
2ET1000105P	Communication Skill Practical	HSMC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000109T	Elements of Electrical and Electronics Engineering	ESC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1000109P	Elements of Electrical and Electronics Engineering Practical	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000110T	Python Programming	PCC	3	3	0		3	24	60	16	40	-	-	-	-	100
2ET1000110P	Python Programming Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000111T	Universal Human Value - II : Understanding Harmony and Ethical Human Conduct	HSMC	3	3	0	-	3	24	60	16	40	-	-	-	-	100
2ET1000115P	Manufacturing Practice Workshop	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000117T	Environmental Studies*		-	2	-	-	2	-	-	-	-	-	-	-	-	
Total			19	16	0	10	26	120	300	80	200	50	125	50	125	750

L=Lecture, T=Tutorial, P=Practical

Note (if any):- * Subject is Non-Credit

BSC = Basic Science Course

PCC = Professional Core Course

SEE = Semester End Evaluation

ESC = Engineering Science Course

HSMC= Humanities & Social Science including Mangament Course

CCA = Continuous & Comprehensive Assessment



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Semester :- III

With Effect from: 2023-24

Course Code	Course Name	Course Type	Credit	Hours per week				Theory (Marks)				Practical (Marks)				Total (Marks)
								SEE		CCA		SEE		CCA		
				L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1000301T	Discrete Mathematics	BSC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1050301T	Digital Fundamentals	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1050301P	Digital Fundamentals Practical	ESC	1	-	-	2	2	-	-	-		10	25	10	25	50
2ET1030302T	Data Structures	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030302P	Data Structures Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030303T	Database Management System	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030303P	Database Management System Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030304T	Object Oriented Programming with Java	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030304P	Object Oriented Programming with Java Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000302P	Design Thinking	HSMC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000303T	Indian Constitution	MC	-	1	-	-	1	-	-	-	-	-	-	-	-	-
Total			21	16	1	10	27	120	300	80	200	50	125	50	125	750



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Semester :- IV

With Effect from: 2023-24

Course Code	Course Name	Course Type	Credit	Hours per week				Theory (Marks)				Practical (Marks)				Total (Marks)
								SEE		CCA		SEE		CCA		
				L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1000401T	Engineering Mathematics with Computational Methods	BSC	4	3	1		4	24	60	16	40	-	-	-	-	100
2ET1050401T	Operating System and Virtulization	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1050401P	Operating System and Virtulization Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030401T	Design and Analysis of Algorithm	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1030401P	Design and Analysis of Algorithm Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030403T	Computer Organization & Architecture	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1030403P	Computer Organization & Architecture Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030404T	Computer Network	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1030404P	Computer Network Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000402T	Integrated Personality Development Course - I	MC	-	2	-	-	2	-	-	-	-	-	-	-	-	-
	Management Elective	HSMC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
Total			23	20	1	8	29	144	360	96	240	40	100	40	100	800

Management Elective	
2ET1000411T	Organisational Behavior
2ET1000412T	Economics and Management
2ET1000413T	Ecommerce and Management



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Semester :- V

With Effect from: 2023-24

Course Code	Course Name	Course Type	Credit	Hours per week				Theory (Marks)				Practical (Marks)				Total (Marks)
								SEE		CCA		SEE		CCA		
				L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1050501T	Software Engineering and Project Management	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1050501P	Software Engineering and Project Management	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1050502T	Web Development	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1050502P	Web Development Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030503T	Artificial Intelligence	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030503P	Artificial Intelligence Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
	Professional Elective -I	PEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Professional Elective –II	PEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000503T	Integrated Personality Development Course - II	MC	-	2	-	-	2	-	-	-	-	-	-	-	-	-
	Total		18	17	-	6	23	120	300	80	200	30	75	30	75	650

Professional Elective-I Theory	
2ET1030504T	Machine Learning [Specialization in AI&ML]
2ET1030505T	Mathematical Foundation of Data Science [Specialization in Data
2ET1030506T	Cryptography and Computer Security [Specialization in Cyber

Professional Elective-II Theory	
2ET1030507T	Soft Computing [Specialization in AI&ML]
2ET1030508T	Big Data Analytics [Specialization in Data Science]
2ET1030509T	Machine Learning for Cyber Security [Specialization in Cyber Security]



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Program Code: ET105

Semester :- VI

With Effect from: 2023-24

Course Code	Course Name	Course Type	Credit	Hours per week				Theory (Marks)				Practical (Marks)				Total (Marks)
								SEE		CCA		SEE		CCA		
				L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1050601T	Distributed Computing	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1050601P	Distributed Computing Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1050602T	Formal Language and Automata Theory	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1050602P	Formal Language and Automata Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1050603T	Internet of Things and Applications	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1050603P	Internet of Things and Applications Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
	Professional Elective -III	PEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Open Elective-I	PEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000601P	Engineering Project - I	PROJ	2	-	-	4	4	-	-	-	-	10	25	10	25	50
	Total		20	15	0	10	25	120	300	80	200	40	100	40	100	700

Professional Elective-III Theory	
2ET1030604T	Deep Learning and Applications [Specialization in AI&ML]
2ET1030605T	Data Handling & Visualization [Specialization in Data Science]
2ET1030606T	Malware analysis, Digital Forensic and Cyber Law [Specialization in Cyber Security]

Open Elective – I		Subject Offered By
2ET1010681T	Fundamentals of Robotics	Mechanical Engineering
2ET1060681T	Disaster Management	Civil Engineering
2ET1090681T	Electrical & Hybrid Vehicles	Electrical Engineering
2ET1030681T	Cryptography and Computer Security	Computer Engineering / Information Technology
2ET1070681T	Wireless Communication	Artificial Intelligence and Data Science
2ET1080681T	Artificial Intelligence and Machine Learning	Information Communication Technology

Program Name: Bachelor of Technology (Information Technology)
Program Code: ET105
Semester / Year :- VII/Four
Effect from Academic Year: 2023-24

Course Code	Course Name	Course Type	Credit	Hours per week				Theory (Marks)				Practical (Marks)				Total (Marks)
								SEE		CCA		SEE		CCA		
				L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2ET1000701P	Engineering Project - II	PSS	6	-	-	12	12	-	-	-	-	30	75	30	75	150
2ET1030702T	Compiler Design	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030703T	Research Methodology	PSS	2	2	-	-	2	-	-	10	25	-	-	-	-	25
2ET1030703P	Research Methodology Practical	PSS	1	-	-	2	2	-	-	-	-	-	-	10	25	25
	Elective -IV Theory	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Elective -IV Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
	Elective -V Theory	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Elective -V Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
	Open Elective-II	OEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
Total			23	14	0	18	32	96	240	74	185	50	125	60	150	700

Elective -IV Theory			Elective -IV Practical		
2ET1030704T	Natural Language Processing	and	2ET1030704P	Natural Language Processing Practical	
2ET1030705T	Explainable Artificial Intelligence	and	2ET1030705P	Explainable Artificial Intelligence Practical	
2ET1030706T	Generative Artificial Intelligence	and	2ET1030706P	Generative Artificial Intelligence Practical	

Elective -V Theory			Elective -V Practical		
2ET1030707T	Cybersecurity Operating & Monitoring	and	2ET1030707P	Cybersecurity Operating & Monitoring Practical	
2ET1030708T	Digital Forensic & Incident Response	and	2ET1030708P	Digital Forensic & Incident Response Practical	
2ET1030709T	Cyber Ethics and Responsible AI	and	2ET1030709P	Cyber Ethics and Responsible AI Practical	

Open Elective - II		Subject Offered By:
2ET1010781T	Quality Management	Mechanical Engineering
2ET1060781T	Waste Management	Civil Engineering
2ET1090781T	Wind and Solar Energy Systems	Electrical Engineering
2ET1030781T	Data Handling and Visualization	Computer Engineering / Information Technology
2ET1080781T	Deep Learning	Artificial Intelligence and Data Science
2ET1030782T	Startup & Innovation Management	Computer Engineering / Information Technology

Program Name: -Bachelor of Technology (Information Technology)

Program Code: ET105

Effect from Academic Year: 2023-24

Semester / Year :- VIII/Four

Course Code	Course Name	Course Type	Credit	Hours per week				Theory (Marks)				Practical (Marks)				Total (Marks)	
								SEE		CCA		SEE		CCA			
				L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
2ET1000801P	Engineering Project - III: Internship / Project	PSS	14	-	-	28	28	-	-	-	-	70	175	70	175	350	
	Soft Skill Elective	HSMC	3	-	2	2	4	-	-	-	-	20	50	20	50	100	
Total				17	0	2	30	32	0	0	0	0	90	225	90	225	450

Soft Skill Elective	
2ET1030802P	German Language
2ET1030803P	French Language
2ET1030804P	Professional, Academic and Cross-Cultural Communication