



Faculty of Engineering and Technology

Program Name: -Bachelor of Technology (Civil Engineering)
Semester :- I

Program Code: ET106
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	-	-	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
2ET1000113T	Elements of Civil Engineering	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000113P	Elements of Civil Engineering Practical	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000114T	Elements of Mechanical Engineering	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000114P	Elements of Mechanical Engineering Practical	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000115P	Manufacturing Practice Workshop	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000116P	Yoga and Spirituality *		-	-	-	2	2	-	-	-	-	-	-	-	-	-
Total			20	14	0	14	28	120	300	80	200	60	150	60	150	800

L=Lecture, T=Tutorial, P=Practical

Note (if any):-



Faculty of Engineering and Technology

Program Name: - Bachelor of Technology (Civil Engineering)

Program Code: ET106

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
2ET1000104T	Engineering Physics	BSC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000104P	Engineering Physics Practical	BSC	1	-	-	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	-	-	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	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000111T	Universal Human Value - II : Understanding Harmony and Ethical Human Conduct	HSMC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000112P	IT Workshop	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000117T	Environmental Studies *		-	2	-	-	2	-	-	-	-	-	-	-	-	-
Total			20	17	0	10	27	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



Program Code: ET106
With Effective from: 2023-24

SEE = Semester End Evaluation CCA =Continuous & Comprehensive Assessment
BSC: Basic Science Course; ESC: Engineering Science Course; PCC: Professional Core Course; HSSC: Humanities and Social Sciences; MC: Mandatory Course

Program Name: Bachelor of Technology (Civil Engineering)
Semester: IV

Program Code: ET106
With Effective 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.	
2ET1060401T	Soil Mechanics	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060401P	Soil Mechanics Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060402T	Concrete Technology	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060402P	Concrete Technology Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060403T	Environmental Engineering	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060403P	Environmental Engineering Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060404T	Hydrology and Water Resources Engineering	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1060405T	Structural Analysis - I	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1000402T	Integrated Personality Development Course - I	MC	-	2	-	-	2	-	-	-	-	-	-	-	-	-
Total			20	17	2	6	25									650

SEE = Semester End Evaluation

CCA =Continuous & Comprehensive Assessment

PCC: Professional Core Course; MC: Mandatory Course



Faculty of Engineering and Technology

Program Name: Bachelor of Technology in Civil Engineering

Program Code: ET106

Semester/Year: Semester-V/Third Year

Effective from Academic Year: 2023-24

Subject Code	Subject 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.	
2ET1060501T	Irrigation Engineering	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1060502T	Structural Analysis -II	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1060503T	Water and Wastewater Engineering	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060503P	Water and Wastewater Engineering Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060504T	Highway Engineering	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060504P	Highway Engineering Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
	Program Elective - I	PEC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
	Management Elective -I	HSMC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000503T	Integrated Personality Development Course - II	HSMC	0	2	-	-	2	-	-	-	-	-	-	-	-	0
	Total Credit		23	20	3	4	27	-	360	-	240	-	50	-	50	700

SEE: Semester End Evaluation

CCA: Continuous & Comprehensive Assessment

PCC: Program Core Course;

HSSC: Humanities and Social Sciences

Faculty of Engineering and Technology

Program Elective -I:	
2ET1060506T	Earthquake Engineering
2ET1060507T	Remote Sensing and GIS in Civil Engineering
2ET1060508T	Green Building
2ET1060509T	Foundation Engineering

Management Elective -I:	
2ET1000501T	Industrial Psychology
2ET1000502T	Project Management



Faculty of Engineering and Technology

Program Name: Bachelor of Technology in Civil Engineering

Program Code: ET106

Semester/Year: Semester-VI/Third Year

Effective from Academic Year: 2023-24

Subject Code	Subject 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.	
2ET1060601T	Design of Reinforced Concrete Structure	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1060602T	Railway, Bridge and Tunnel Engineering	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1060603T	Advanced Fluid Mechanics	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060603P	Advanced Fluid Mechanics Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060607T	Research Methodology	HSSC	2	2	-	-	2	-	-	16	40			04	10	50
	Program Elective -II	PEC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
	Management Elective -II	HSMC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Open Elective -I	OEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Total Credit		24	19	3	2	25	-	360	-	280	-	25	-	35	700

SEE: Semester End Evaluation

CCA: Continuous & Comprehensive Assessment

PCC: Program Core Course;

HSSC: Humanities and Social Sciences

PEC: Program Elective Course

OEC: Open Elective Course

Faculty of Engineering and Technology

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
2ET1080681T	Artificial Intelligence and Machine Learning	Artificial Intelligence and Data Science
2ET1070681T	Wireless Communication	Information Communication Technology

Management Elective -II	
2ET1000602T	Operation Research
2ET1000603T	Finance and Accounting

Program Elective –II:	
2ET1060604T	Repair and Rehabilitation of Structure
2ET1060605T	Urban Transportation System
2ET1060606T	Design of Hydraulic Structures



Faculty of Engineering and Technology

Program Name: Bachelor of Technology in Civil Engineering

Program Code: ET106

Semester/Year: Semester-VII/Fourth Year

Effective from Academic Year: 2023-24

Subject Code	Subject 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.	
2ET1060701T	Design of Steel structure	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1060702T	Construction Planning & Management	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060702P	Construction Planning & Management Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060703T	Estimation, Costing and Valuation	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1060703P	Estimation, Costing and Valuation Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1060707P	Engineering Project - I	PROJ	6	-	-	12	12	-	-	-	-	30	75	30	75	150
	Program Elective -III	PCC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
	Open Elective –II	OEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Total Credit		25	15	2	16	33		300		200		125		125	750

SEE: Semester End Evaluation

CCA: Continuous & Comprehensive Assessment

PCC: Program Core Course

PEC: Program Elective Course

OEC: Open Elective Course



Faculty of Engineering and Technology

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
2ET1070781T	Industrial IoT	Information Communication Technology
2ET1080781T	Deep Learning	Artificial Intelligence and Data Science

Program Elective –III:	
2ET1060704T	Design of special structures
2ET1060705T	Dock Harbor and Airport Engineering
2ET1060706T	Smart cities



Faculty of Engineering and Technology

Program Name: Bachelor of Technology in Civil Engineering

Program Code: ET106

Semester/Year: Semester-VIII/Fourth Year

Effective from Academic Year: 2023-24

Subject Code	Subject 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.	
2ET1060801P	Engineering Project - II: Internship / Project	PROJ	14	-	-	28	28	-	-	-	-	70	175	70	175	350
	Open Elective –III	OEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Total Credit		17	3	0	28	31									450

SEE: Semester End Evaluation

CCA: Continuous & Comprehensive Assessment

PCC: Program Core Course

PEC: Program Elective Course

OEC: Open Elective Course

Open Elective - III		Subject Offered By:
2ET1010881T	Optimization Methods in Engineering	Mechanical Engineering
2ET1060881T	Smart Cities	Civil Engineering
2ET1090881T	Energy Conservation and Audit	Electrical Engineering
2ET1030881T	Block Chain Technology	Computer Engineering / Information Technology
2ET1080881T	Speech Processing	Artificial Intelligence and Data Science
2ET1070881T	Cloud Computing	Information Communication Technology