

Faculty of Engineering and Technology

Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

Program Code: ET114

Semester: - I

With Effect from: 2026-27

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
1ET1140101T	AI and ML Essentials	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140101P	AI and ML Essentials 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
2ET1000107T	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
2ET1000108T	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									800

L=Lecture, T=Tutorial, P=Practical

Note (if any): *Subjects NoCredit

Faculty of Engineering and Technology

Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

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Semester: - II

With Effect from: 2026-27

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
1ET1140201T	Machine Learning Engineering	ESC	3	3	-		3	24	60	16	40	-	-	-	-	100
1ET1140201P	Machine Learning Engineering Practical	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000110T	Python Programming	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
2ET1000110P	Python Programming Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000111T	Universal Human Value: Understanding Harmony and Ethical Human Conduct	HSMC	3	3	-		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									750

L=Lecture, T=Tutorial, P =Practical

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

ESC=Engineering Science Course

HSMC= Humanities & Social Science including Management Course CCA = Continuous & Comprehensive Assessment

BSC =Basic Science Course

PCC= Professional Core Course SEE=Semester End Evaluation

Faculty of Engineering and Technology

Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

Program Code: ET114

Semester: - III

With Effect from: 2026-27

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.	
2ET1080405T	Probability and Statistics	BSC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1030301T	Digital Electronics	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030301P	Digital Electronics Practical	ESC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1030303T	Database Management Systems	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030303P	Database Management Systems Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1080301T	Data Structures and Algorithm with Python	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1080301P	Data Structures and Algorithm with Python Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
1ET1140302T	Deep Learning (Neural Networks)	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140302P	Deep Learning (Neural Networks) Practical	ESC	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									750

L=Lecture, T=Tutorial, P =Practical

SEE=Semester End Evaluation

CCA= Continuous & Comprehensive Assessment

Note (if any):- ESC: Engineering Science Course; PCC: Professional Core Course; HSSC: Humanities and Social Sciences; MC: Mandatory Course

Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

Program Code: ET114

Semester: - IV

With Effect from: 2026-27

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.	
2ET1030402T	Operating System	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1030402P	Operating System Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
1ET1140401T	Responsible and Secure AI Systems	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140402T	Data Visualization &Modelling	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140402P	Data Visualization &Modelling Practical	PCC	1		-	2	2	-	-	-	-	10	25	10	25	50
2ET1080403T	Software Engineering &Project Management	ESC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140403T	Explainable AI(XAI)	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140403P	Explainable AI(XAI) Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
2ET1000301T	Discrete Mathematics	BSC	4	3	1	-	4	24	60	16	40	-	-	-	-	100
2ET1000402T	Integrated Personality Development Course-I	MCC	-	2	-	-	2	-	-	-	-	-	-	-	-	-
	Total		22	20	1	6	27									750

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CCA=Continuous & Comprehensive Assessment

Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

Program Code: ET114

Semester: - V

With Effect from: 2026-27

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.	
1ET1140501T	Behavioral Design and Persona Engineering in AI Systems	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140501P	Behavioral Design and Persona Engineering in AI Systems Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
1ET1140502T	Computer Vision and Image Processing	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140502P	Computer Vision and Image Processing 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
	Management Elective-I	HSSC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1070506T	Theory of Computation	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000503T	Integrated Personality Development Course-II	MCC	-	2	-	-	2	-	-	-	-	-	-	-	-	-
	Total		20	20	0	4	24									700

Professional Elective-I

1ET1140503T	Time Series Forecasting
1ET1140504T	Reinforcement Learning

Management Elective-I

2ET1000501T	Industrial Psychology
2ET1000502T	Project Management

Professional Elective-II

1ET1140505T	Optimization in ML
1ET1140506T	Big Data Analytics

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Program Code: ET114

Semester: - VI

With Effect from: 2026-27

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.	
1ET1140601T	Applied Large Language Model Development and Deployment	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140601P	Applied Large Language Model Development and Deployment Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
1ET1140602T	ML Ops Fundamentals	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
1ET1140602P	ML Ops Fundamentals Practical	PCC	1	-	-	2	2	-	-	-	-	10	25	10	25	50
1ET1140603T	Natural Language Processing	PCC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
1ET1140603P	Natural Language Processing 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	OEC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
2ET1000601P	Engineering Project-I	PROJ	2	-	-	4	4	-	-	-	-	10	25	10	25	50
	Management Elective-II	HSSC	3	3	-	-	3	24	60	16	40	-	-	-	-	100
	Total		23	18	-	10	28									800

Professional Elective-III

Course Code	Course Name
1ET1140604T	Precision Agriculture Analytics
1ET1140605T	Transforming Healthcare Analytics

Management Elective-II

Course Code	Course Name
2ET1000602T	Operation Research
2ET1000603T	Finance and Accounting

Open Elective-I

Course Code	Course Name	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

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Note (if any): -PCC: Professional Core Course; PROJ-Project

SEE=Semester End Evaluation

CCA=Continuous & Comprehensive Assessment

Faculty of Engineering and Technology

Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

Program Code: ET114

Semester: - VII

With Effect from: 2026-27

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.	
1ET1140701T	ML for Edge AI and Embedded Systems	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
1ET1140701P	ML for Edge AI and Embedded Systems Practical	PCC	1			2	2	-	-	-	-	10	25	10	25	50
1ET1140702T	Agentic AI (Autonomous AI Agents) and RAG	PCC	3	3	-		3	24	60	16	40	-	-	-	-	100
1ET1140702P	Agentic AI (Autonomous AI Agents) and RAG Practical	PCC	1			2	2	-	-	-	-	10	25	10	25	50
	Professional Elective- IV	PEC	3	3	-		3	24	60	16	40	-	-	-	-	100
	Professional Elective-IV Practical	PEC	1			2	2	-	-	-	-	10	25	10	25	50
	Open Elective- II	OEC	3	3	-	0	3	24	60	16	40	-	-	-	-	100
2ET1000701P	Engineering Project-II	PROJ	6	-	-	12	12	-	-	-	-	30	75	30	75	150
	Total		21	12	0	18	30									700

Professional Elective-IV

Course Code	Course Name
1ET1140703T	Computer Vision & Remote Sensing for Agriculture
1ET1140704T	Biomedical Image Analysis

Professional Elective-IV Practical

Course Code	Course Name
1ET1140703P	Computer Vision & Remote Sensing for Agriculture Practical
1ET1140704P	Biomedical Image Analysis Practical

Open Elective-II

Course Code	Course Name	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
2ET1070781T	Industrial IoT	Information Communication Technology

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Program Name: -Bachelor of Technology (Artificial Intelligence & Machine Learning)

Program Code: ET114

Semester: - VIII

With Effect from: 2026-27

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.	
	Open Elective–III	OEC	3	3	-	-	3	24	60	16	40	-	-		-	100
2ET1000801P	Engineering Project-III: Internship/Project	PROJ	14	-	-	28	28	-	-	-	-	70	175	70	175	350
	Total		17	3	-	28	31									450

Open Elective-III

Course Code	Course Name	Subject Offered By
2ET1010881T	Optimization Methods in Engineering	Mechanical Engineering
2ET1060881T	Smart Cities	Civil Engineering
2ET1090881T	Energy Conservation and Audit	Electrical Engineering
2ET1030881T	Blockchain Technology	Computer Engineering/Information Technology
2ET1080881T	Speech Processing	Artificial Intelligence and Data Science
2ET1070881T	Cloud Computing	Information Communication Technology

Note(ifany):- L=Lecture, T=Tutorial, P=Practical