

DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING



**SCHEME & SYLLABUS FOR
BACHELOR OF TECHNOLOGY (B. Tech)**

**COMPUTER SCIENCE & ENGINEERING
(Artificial Intelligence & Machine Learning)
(3rd to 8th Semester)**

Graduation Batch: 2025-2029

Total Credits

Sl. No	Semester	Credits
1	1st semester	21
2	2nd semester	21
3	3rd semester	22
4	4th semester	25
5	5th semester	23
6	6th semester	22
7	7th semester	13
8	8th semester	13
Total		160

SCHEME - B.TECH – 2025-26 ONWARDS**I SEM - CHEMISTRY CYCLE**

SL	COURSE CODE	COURSE TITLE	SCHEME OF TEACHING					Examination (Maximum Marks)	
			L	T	P	J	C	SEE	TM
1	25EN1101	LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS	3	0	0	0	3	40	100
2	25EN1102	OBJECT ORIENTED PROGRAMMING	2	1	2	0	4	40	100
3	25EN1104	ENGINEERING CHEMISTRY	2	0	2	0	3	40	100
4	25EN1105	INTRODUCTION TO MECHANICAL ENGINEERING	2	0	2	0	3	40	100
5	25EN1106	INTRODUCTION TO ELECTRICAL ENGINEERING	2	0	0	0	2	40	100
6	25EN1107	ENGINEERING MECHANICS	2	0	0	0	2	40	100
7	25EN1108	TECHNICAL ENGLISH	2	0	0	0	2	-	100
8	25EN1109	ENVIRONMENTAL SCIENCE	1	0	0	0	0	-	50
9	25EN1110	KANNADA KALI / MANASU	1	0	0	0	0	-	50
10	25EN1103	COGNITIVE AND TECHNICAL SKILLS – I	0	0	0	0	P/F	-	100
			17	1	10	0	21	240	900

L – Lecture, T – Tutorial, P – Practical, J – Project, C – No. of Credits, CIE – Continuous Internal Evaluation,
SEE- Semester End Examinations, TM – Total Marks.

SCHEME - B.TECH – 2025-26 ONWARDS**I SEM - PHYSICS CYCLE**

SL	COURSE CODE	COURSE TITLE	SCHEME OF TEACHING					Examination (Maximum Marks)		
			L	T	P	J	C	CIE	SEE	TM
1	25EN1101	LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS	3	0	0	0	3	60	40	100
2	25EN1102	OBJECT ORIENTED PROGRAMMING	2	1	2	0	4	60	40	100
3	25EN1111	ENGINEERING PHYSICS	3	0	2	0	4	60	40	100
4	25EN1112	INTRODUCTION TO ELECTRONICS ENGINEERING	3	0	0	0	3	60	40	100
5	25EN1113	ENGINEERING GRAPHICS AND DESIGN THINKING	2	0	2	0	3	60	40	100
6	25EN1114	BIOLOGY FOR ENGINEERS	2	0	0	0	2	100	-	100
7	25EN1115	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	1	0	0	0	0	50	-	50
8	25EN1103	COGNITIVE AND TECHNICAL SKILLS – I	0	0	0	0	P/F	100	-	100
			16	1	10	0	21	550	200	750

L – Lecture, T – Tutorial, P – Practical, J – Project, C – No. of Credits, CIE – Continuous Internal Evaluation, SEE- Semester End Examinations, TM – Total Marks.

SCHEME - B.TECH – 2025-26 ONWARDS**II SEM - CHEMISTRY CYCLE**

SL	COURSE CODE	COURSE TITLE	SCHEME OF TEACHING					Examination (Maximum Marks)		
			L	T	P	J	C	CIE	SEE	TM
1	25EN1201	SINGLE AND MULTIVARIATECALCULUS	3	0	0	0	3	60	40	100
2	25EN1202	C PROGRAMMING FOR PROBLEM SOLVING	2	1	2	0	4	60	40	100
3	25EN1104	ENGINEERING CHEMISTRY	2	0	2	0	3	60	40	100
4	25EN1105	INTRODUCTION TO MECHANICAL ENGINEERING	2	0	2	0	3	60	40	100
5	25EN1106	INTRODUCTION TO ELECTRICAL ENGINEERING	2	0	0	0	2	60	40	100
6	25EN1107	ENGINEERING MECHANICS	2	0	0	0	2	60	40	100
7	25EN1108	TECHNICAL ENGLISH	2	0	0	0	2	100	-	100
8	25EN1109	ENVIRONMENTAL SCIENCE	1	0	0	0	0	50	-	50
9	25EN1110	KANNADA KALI / MANASU	1	0	0	0	0	50	-	50
10	25EN1203	COGNITIVE AND TECHNICAL SKILLS – II	0	0	0	0	P/F	100	-	100
			17	1	10	0	21	660	240	900

L – Lecture, T – Tutorial, P – Practical, J – Project, C – No. of Credits, CIE – Continuous Internal Evaluation,
SEE- Semester End Examinations, TM – Total Marks.

SCHEME - B. TECH – 2025-26 ONWARDS**II SEM - PHYSICS CYCLE**

SL	COURSE CODE	COURSE TITLE	SCHEME OF TEACHING					Examination (Maximum Marks)	
			L	T	P	J	C	SEE	TM
1	25EN1201	SINGLE AND MULTIVARIATECALCULUS	3	0	0	0	3	40	100
2	25EN1202	C PROGRAMMING FOR PROBLEM SOLVING	2	1	2	0	4	40	100
3	25EN1111	ENGINEERING PHYSICS	3	0	2	0	4	40	100
4	25EN1112	INTRODUCTION TO ELECTRONICS ENGINEERING	3	0	0	0	3	40	100
5	25EN1113	ENGINEERING GRAPHICS AND DESIGN THINKING	2	0	2	0	3	40	100
6	25EN1114	BIOLOGY FOR ENGINEERS	2	0	0	0	2	-	100
7	25EN1115	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	1	0	0	0	0	-	50
8	25EN1203	COGNITIVE AND TECHNICAL SKILLS – II	0	0	0	0	P/F	-	100
			16	1	10	0	21	200	750

L – Lecture, T – Tutorial, P – Practical, J – Project, C – No. of Credits, CIE – Continuous Internal Evaluation, SEE- Semester End Examinations, TM – Total Marks.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Artificial Intelligence & Machine Learning)



III SEM – CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SL. NO	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	BSC	25AM2301	Probability & Statistics	3	0	0	0	60	40	100	03
2	IPCC	25AM2302	Data Structures	3	0	2	0	60	40	100	04
3	IPCC	25AM2303	Principles of Database Management	3	0	2	0	60	40	100	04
4	PCC	25AM2304	Artificial Intelligence	3	0	0	0	60	40	100	03
5	PCC	25AM2305	Computer Organization and Architecture	3	0	0	0	60	40	100	03
6	PCC	25AM2306	AI For Embedded Systems	2	0	2	0	60	40	100	03
7	SEC	25AM2307	Skill Enhancement Course – I (Java Programming)	1	0	2	0	100	--	100	02
8	AEC	25AM2308	Cognitive and Technical Skills-III	--	--	--	--	--	--	--	Pass/Fail
			Total	20	0	06	0				22

IPCC-Integrated Professional Core Course, PCC-Professional Core Courses, SEC-Skill Enhancement Courses, BSC-Basic Science, L – Lecture, T – Tutorial, P – Practical, J –Project, C – No. Of Credits, AEC-Ability Enhancement Course



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IV SEM – CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credit
				L	T	P	J				
1	BSC	25AM2401	Transform and Numerical Techniques	3	0	0	0	60	40	100	03
2	IPCC	25AM2402	Design and Analysis of Algorithms	3	0	2	0	60	40	100	04
3	IPCC	25AM2403	Computer Networks	3	0	0	0	60	40	100	03
4	PCC	25AM2404	Theory of Computation and System Software	3	1	0	0	60	40	100	04
5	IPCC	25AM2405	Machine Learning	3	0	2	0	60	40	100	04
6	PCC	25AM2406	Full Stack Development	3	0	0	0	60	40	100	03
7	SEC	25AM2407	Sensors, Systems & IoT Fundamentals	2	0	2	0	60	40	100	03
8	PCC	25AM2408	AI for Sustainability	0	0	0	2	100	--	100	01
9	AEC	25AM2409	Cognitive and Technical Skills-IV	--	--	--	-	--	--	--	Pass/Fail
			Total	19	1	06	0				25

IPCC-Integrated Professional Core Course, PCC-Professional Core Courses, SEC-Skill Enhancement Courses, PEC-Professional Elective Courses, BSC-Basic Science, L – Lecture, T – Tutorial, P – Practical, J– Project, C – No. Of Credits, AEC-Ability Enhancement Course



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V SEM – CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credit
				L	T	P	J				
1	IPCC	25AM3501	Deep Learning	3	0	2	0	60	40	100	04
2	IPCC	25AM3502	System Software and Operating System	2	0	2	0	60	40	100	04
3	PCC	25AM3503	Natural Language Models	3	1	0	0	60	40	100	04
4	PCC	25AM3504	Image Processing and Computer Vision	3	1	0	0	60	40	100	04
5	HSMC	25AM3505	Innovation and Entrepreneurship	2	0	0	0	60	40	100	02
6	SEC	25AM3506	Skill Enhancement Course -III (Cloud Computing)	1	0	2	0	100	--	100	02
7	PEC	25AMXXXX	Professional Elective Course -I	3	0	0	0	60	40	100	03
8	AEC	25AM3507	Cognitive and Technical Skills-V	-	-	-	-	--	--	--	Pass/Fail
			Total	18	1	6	0				23

HSMC- Humanities and Social Sciences including Management Courses, IPCC-Integrated Professional Core Course, PCC-Professional Core Courses, SEC-Skill Enhancement Courses, PEC-Professional Elective Courses, L – Lecture, T – Tutorial, P – Practical, J-Project, C – No. Of Credits, AEC-Ability Enhancement Course



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Professional Elective Courses Offering (PEC-I)									
Course Code	Course Name	Teaching Hours / Week				Examination			
		Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
		L	T	P	J				
25AM3508	Accelerated Data Science	2	0	0	2	100	--	100	03
25AM3509	Ethics, Safety & Governance of Agentic AI	2	0	0	2	100	--	100	03
25AM3510	Intelligent Speech Processing Systems	2	0	0	2	100	--	100	03
25AM3511	Foundations of Robotics and Intelligent Systems	2	0	0	2	100	--	100	03
25AM3512	Explainable AI	2	0	0	2	100	--	100	03
25AM3513	Cognitive Linguistics	2	0	0	2	100	--	100	03



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VI SEM – CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credit
				L	T	P	J				
1	IPCC	25AM3601	Agentic AI	3	0	2	0	60	40	100	04
2	IPCC	25AM3602	Gen AI and Prompt Engineering	3	0	2	0	60	40	100	04
3	PCC	25AM3603	Designing MLOps for Enterprises	2	0	0	2	60	40	100	03
4	PEC	25AMXXXX	Professional Elective Course – II	2	0	0	2	100	--	100	03
5	PEC	25AMXXXX	Professional Elective Course – III	2	0	0	2	100	--	100	03
6	OEC	25OEXXXX	Open Elective – I	3	0	0	0	100	--	100	03
7	PROJ	25AM3604	Minor Project	0	0	0	4	--	100	100	02
8	AEC	25AM3605	Cognitive and Technical Skills- VI	-	-	-	-	--	--	--	P/F
			Total	18	0	4	4				22

IPCC-Integrated Professional Core Course, PCC-Professional Core Courses, PEC-Professional Elective Courses, OEC-Open Elective Courses, PROJ-Project Work, L – Lecture, T – Tutorial, P – Practical, J– Project, C – No. Of Credits, AEC-Ability Enhancement Cour



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Professional Elective Courses Offering (PEC-II)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	PEC	25AM3606	Accelerated Computing	2	0	0	2	100	--	100	03
2	PEC	25AM3607	LLM based Agent Frameworks	2	0	0	2	100	--	100	03
3	PEC	25AM3608	Visual Computing and Graphics	2	0	0	2	100	--	100	03
4	PEC	25AM3609	Robot Operating Systems (ROS)	2	0	0	2	100	--	100	03
5	PEC	25AM3610	AI for Autonomous Vehicles & Smart Mobility	2	0	0	2	100	--	100	03
6	PEC	25AM3611	Conversational AI and Spoken Language Understanding	2	0	0	2	100	--	100	03



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Open Elective Course Offering (OEC-I)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	OEC	25OE3618	Industrial Robotics	2	0	0	2	100	--	100	03
2	OEC	25OE3619	Multimodal and Multilingual Language Perception	2	0	0	2	100	--	100	03
3	OEC	25OE3620	AI for Autonomous Vehicles and Smart Mobility	2	0	0	2	100	--	100	03
4	OEC	25OE3621	AI For Content Generation	2	0	0	2	100	--	100	03

HSMC- Humanities and Social Sciences including Management Courses, IPCC-Integrated Professional Core Course, PCC-Professional Core Courses, AEC-Ability Enhancement Course, SEC-Skill Enhancement Courses, PEC-Professional Elective Courses, OEC-Open Elective Courses, PROJ-Project Work, INT-Internship, CR – Credit, AU – Audit, L – Lecture, T – Tutorial, P – Practical, S/P – Seminar/Project, C – No. Of Credits



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Professional Elective Courses Offering (PEC-III)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	PEC	25AM3612	Edge AI and Robotics	2	0	0	2	100	--	100	03
2	PEC	25AM3613	Multi-Agent AI Systems	2	0	0	2	100	--	100	03
3	PEC	25AM3614	Intelligent Computational Imaging and Reconstruction	2	0	0	2	100	--	100	03
4	PEC	25AM3615	Autonomous Robotic Systems	2	0	0	2	100	--	100	03
5	PEC	25AM3616	AI for Health care	2	0	0	2	100	--	100	03
6	PEC	25AM3617	Building AI Applications with Large Language Models	2	0	0	2	100	--	100	03



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VII SEM –CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credit
				L	T	P	J				
1	PROJ	25AM4701	Capstone Project Phase I	0	0	0	8	60	40	100	04
2	PEC	25AMXXXX	Professional Elective Course – IV	3	0	0	0	100	--	100	03
3	PEC	25AMXXXX	Professional Elective Course – V/ MOOC	3	0	0	0	100	--	100	03
4	OEC	25OEXXXX	Open Elective – II	3	0	0	0	100	--	100	03
			Total	9	0	0	8				13

CID* - NPTEL COURSE ID

IPCC-Integrated Professional Core Course, PCC-Professional Core Courses, SEC-Skill Enhancement Courses, PEC-Professional Elective Courses, OEC-Open Elective Courses, PROJ-Project Work, L – Lecture, T – Tutorial, P – Practical, J–Project, C – No. Of Credits



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Professional Elective Courses Offering (PEC-IV)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	PEC	25AM4702	Deep Learning for Science and Engineering	2	0	0	2	100	--	100	03
2	PEC	25AM4703	Autonomous Agentic AI Systems	2	0	0	2	100	--	100	03
3	PEC	25AM4704	Intelligent Video Surveillance Systems	2	0	0	2	100	--	100	03
4	PEC	25AM4705	Foundation Models for Robotics	2	0	0	2	100	--	100	03
5	PEC	25AM4706	AI for Agriculture	2	0	0	2	100	--	100	03
6	PEC	25AM4707	Multimodal and Multilingual Language Perception	2	0	0	2	100	--	100	03



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Professional Elective Courses Offering (PEC-V)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	PEC	25AM4708	NPTEL/MOOC	2	0	0	2	100	--	100	03
2	PEC	25AM4709	Operationalizing Agentic AI Systems	2	0	0	2	100	--	100	03
3	PEC	25AM4710	Multi-modal interaction and speech interfaces	2	0	0	2	100	--	100	03
4	PEC	25AM4711	Human-Centric Automation and Industry 5.0	2	0	0	2	100	--	100	03
5	PEC	25AM4712	Blockchain for Data Security	2	0	0	2	100	--	100	03
6	PEC	25AM4713	Building Transformer-Based Natural Language Processing Applications	2	0	0	2	100	--	100	03



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Open Elective Course Offering (OEC-II)

SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credits
				L	T	P	J				
1	OEC	250E4714	Human Centric Automation and Industry 5.0	2	0	0	2	100	--	100	03
2	OEC	250E4715	Conversational AI and Spoken Language Understanding	2	0	0	2	100	--	100	03
3	OEC	250E4716	AI for Psychology	2	0	0	2	100	--	100	03
4	OEC	250E4717	GenAI and LLM (Non-CSE Students)	2	0	0	2	100	--	100	03



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VIII SEM –CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	Credit
				L	T	P	J				
1	PROJ	25AM4801	Capstone Project Phase-II	0	0	0	24	60	40	100	10
2	INT	25AM4802	Internship	0	0	0	6	100	--	100	03
			Total	0	0	0	30				13

PROJ-Project Work, INT-Internship, L – Lecture, T – Tutorial, P – Practical, J – Project, C – No. Of Credits



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Professional Elective Courses

S.no	Domain	Domain Clusters	PEC-I	PEC-II	PEC-III	PEC-IV	PEC-V
			Course Name	Course Name	Course Name	Course Name	Course Name
1	Domain-1	DLI/MOOC	Accelerated Data Science	Accelerated Computing	Edge AI and Robotics	Deep Learning for Science and Engineering	NPTEL/MOOC
2	Domain-2	Agentic AI	Ethics, Safety & Governance of Agentic AI	LLM-based Agent Frameworks	Multi-Agent AI Systems	Autonomous Agentic AI Systems	Operationalising Agentic AI Systems
3	Domain-3	Vision, Speech and Multimodal Intelligence	Intelligent Speech Processing Systems	Visual Computing and Graphics	Intelligent Computational Imaging and Reconstruction	Intelligent Video Surveillance Systems	Multi-modal interaction and speech interfaces
4	Domain-4	Robotics and Automation	Foundations of Robotics and Intelligent Systems	Robot Operating Systems (ROS)	Autonomous Robotic Systems	Foundation Models for Robotics	Human-Centric Automation and Industry 5.0
5	Domain-5	Data Analytics and Applications	Explainable AI	AI for Autonomous Vehicles & Smart Mobility	AI for Healthcare	AI for Agriculture	Blockchain for Data Security
6	Domain-6	AI Language Intelligence	Cognitive Linguistics	Conversational AI and spoken Language Understanding	Building AI Applications with Large Language Models	Multi modal and Multilingual Language Perception	Building Transformer-Based Natural Language Processing Applications



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Open Elective Courses

Sl. No	Open Elective Courses	
	6 th Semester	7 th Semester
	OEC-I	OEC-II
1	Industrial Robotics	Human Centric Automation and Industry 5.0
2	Multimodal and Multilingual Language Perception	Conversational AI and Spoken Language Understanding
3	AI for Autonomous Vehicles and Smart Mobility	AI for Psychology
4	AI For Content Generation	GenAI and LLM (Non-CSE Students)