



DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

Department of Computer Science & Engineering (Artificial Intelligence)

B.Tech. PROGRAMME– 2026 BATCH

SCHEME AND SYLLABUS

(1st to 8th Semester)

Academic Year 2026-27



Dayananda Sagar University

School of Engineering

Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dt., South Bengaluru- 562112

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(Artificial Intelligence)



SCHEME AND SYLLABUS FOR B.TECH. AI (FIRST TO FOURTH YEAR) PROGRAMME

Definitions / Descriptions

Definition of Credit:

1 Hour Lecture (L) Per Week	01 Credit
1 Hour Tutorial (T) Per Week	01 Credit
1 Hour Practical (P) Per Week	0.5 Credit
1 Hour Project (J) Per Week	0.5 Credit

Course code and Definition:

BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management Courses
IPCC	Integrated Professional Core Course
PCC	Professional Core Courses
PEC	Professional Elective Courses
OEC	Open Elective Courses
SEC	Skill Enhancement Courses
UHV	Universal Human Value Course
PROJ	Project Work
INT	Internship



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Artificial Intelligence)

I - SEMESTER (PHYSICS CYCLE)



SL.NO	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	CIE Marks	SEE Marks	Total Marks	Credit
1	PCC		Linear algebra & data foundations	3	0	0	0				
2	BSC		Engineering Physics	3	0	2	0	60	40	100	4
3	IPCC		Computational Thinking & Programming Using Python	2	0	2	0	60	40	100	3
4	IPCC		Foundations of AI & Authentic Intelligence	3	0	0	0	60	40	100	3
5	ESC		Engineering Science course-I	3	0	0	0	60	40	100	3
6	PCC		Engineering Communication & Technical Writing	2	0	0	0	100	--	100	2
7	MCC		Biology for Engineers	2	0	0	0	100	--	100	2
8	MCC		Kannada Kali / Manasu	1	0	0	0	50	--	50	1
9	AEC		Cognitive and Technical Skills -I	--	--	--	--	--	--	--	P/F
Total				19	00	04	00	550	200	750	21

*PCC- Program Core Course, IPCC- Integrated Program Core Course, PEC – Professional Elective Course, OEC- Open Elective Course, SEC- Skill Enhancement Course, MCC – Mandatory Core Course



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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II - SEMESTER (PHYSICS CYCLE)



SL.NO	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	PCC		Calculus & Mathematical Modelling	3	0	0	0	60	40	100	3
2	BSC		Engineering Physics	3	0	2	0	60	40	100	4
3	IPCC		Computational Thinking & Programming Using Python	2	0	2	0	60	40	100	3
4	IPCC		Foundations of AI & Authentic Intelligence	3	0	0	0	60	40	100	3
5	ESC		Engineering Science course-I	3	0	0	0	60	40	100	3
6	PCC		Engineering Communication & Technical Writing	2	0	0	0	100	--	100	2
7	MCC		Biology for Engineers	2	0	0	0	100	--	100	2
8	MCC		Kannada Kali / Manasu	1	0	0	0	50	--	50	1
9	AEC		Cognitive and Technical Skills -II	--	--	--	--	--	--	--	P/F
Total				19	00	04	00	550	200	750	21

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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I - SEMESTER (CHEMISTRY CYCLE)



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	PCC		Linear Algebra and Data Foundations	3	0	0	0	60	40	100	3
2	BSC		Engineering Chemistry	2	0	2	0	60	40	100	3
3	ESC		Engineering Science course – II	2	1	0	0	60	40	100	3
4	HSMC		Human-Centred Design, Ethics &Values	1	1	0	0	100	--	100	2
5	IPCC		Engineering Graphics & Generative Design	2	0	2	0	60	40	100	3
6	PCC		Design Studio I: Engineering Problem Solving	0	1	0	2	100	--	100	2
7	ESC		Environmental Science	2	0	0	0	100	--	100	2
8	MCC		Indian Constitution & Law	1	0	0	0	50	--	50	1
9	AEC		Cognitive and Technical Skills -I	--	--	--	--	--	--	--	P/F
Total				13	03	04	02	590	160	750	19

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(Artificial Intelligence)



II - SEMESTER (CHEMISTRY CYCLE)

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	PCC		Calculus & mathematical modeling	3	0	0	0	60	40	100	3
2	BSC		Engineering Chemistry	2	0	2	0	60	40	100	3
3	ESC		Engineering Science course – II	2	1	0	0	60	40	100	3
4	HSMC		Human-Centred Design, Ethics & Values	1	1	0	0	100	--	100	2
5	IPCC		Engineering Graphics & Generative Design	2	0	2	0	60	40	100	3
6	PCC		Design Studio I: Engineering Problem Solving	0	1	0	2	100	--	100	2
7	ESC		Environmental Science	2	0	0	0	100	--	100	2
8	MCC		Indian Constitution & Law	1	0	0	0	50	--	50	1
9	AEC		Cognitive and Technical Skills -I	--	--	--	--	--	--	--	P/F
Total				13	03	05	02	590	160	750	19

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Engineering Science Course I & II	
Course Code	Course Name
26XXXX	Introduction to Electrical & Electronics Engineering
26XXXX	Introduction to Electronics Engineering
26XXXX	Engineering Mechanics
26XXXX	Introduction to C Programming



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III SEM -CSE (ARTIFICIAL INTELLIGENCE)

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	PCC	26AI2301	Applied statistics & stochastic processes	3	0	0	0	60	40	100	3
2	IPCC	26AI2302	Data Structures and Algorithms	3	0	2	0	60	40	100	4
3	IPCC	26AI2303	Principles of Database Management	3	0	2	0	60	40	100	4
4	PCC	26AI2304	Fundamental of AI Systems	3	1	0	0	60	40	100	4
5	PCC	26AI2305	Computer Organization and Architecture	3	0	0	0	60	40	100	3
6	IPCC	26AI2306	Design Studio II AI For Embedded Systems	2	0	2	0	60	40	100	3
7	SEC	26AI23XX	Skill Enhancement Course I	1	0	2	0	100	--	100	2
8	AEC	26AI2307	Cognitive and Technical Skills -III	--	--	--	--	--	--	--	P/F
Total				18	1	8	0	460	240	700	23

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Skill Enhancement Courses (SEC-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	SEC	26AI2308	Java Web Stack	1	0	2	0	100	--	100	02
2	PEC	26AI2309	GPU Computing using CUDA	1	0	2	0	100	--	100	02



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IV SEM – CSE (ARTIFICIAL INTELLIGENCE)

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	PCC	26AI2401	Differential Equations & Optimization	3	0	0	0	60	40	100	3
2	IPCC	26AI2402	Machine Learning	3	0	2	0	60	40	100	4
3	PCC	26AI2403	System Software & Operating Systems	2	1	0	0	60	40	100	3
4	PCC	26AI2404	Sustainability Engineering & ESG	2	0	0	0	60	40	100	2
5	PCC	26AI2405	Introduction to Data Science	2	0	0	0	60	40	100	2
6	IPCC	26AI2406	Sensors, Systems & IoT Fundamentals	2	0	2	0	60	40	100	3
7	HSC	26LSXXXX	Liberal Studies	2	0	0	0	100	--	100	2
8	SEC	26AI2407	Skill Enhancement Course II AI in cloud computing	1	0	2	0	100	--	100	2
9	AEC	26AI2408	Cognitive and Technical Skills-IV	--	--	--	--	--	--	--	P/F
Total				17	1	6	0	560	240	800	21

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Liberal Studies

List of Subjects

Sl. No.	Course Code	Course Title	Offering Dept
1	26LSXXXX	Introduction to Japanese language	Any Dept
2	26LSXXXX	Introduction to German language	
3	26LSXXXX	Law for Engineers	
4	26LSXXXX	Introduction to Painting	
5	26LSXXXX	Vedic Mathematics	
6	26LSXXXX	Fundamentals of Critical Thinking	
7	26LSXXXX	Cyber Crimes, Policies & Laws	
8	26LSXXXX	Introduction to Film Studies	
9	26LSXXXX	Practicing Yoga & Meditation	
10	26LSXXXX	Universal Human values	
11	26LSXXXX	Data Governance	
12	26LSXXXX	Introducing to Film Studies	
13	26LSXXXX	Practicing Yoga and Meditation	
14	26LSXXXX	NPTEL/MOOC Courses	



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V SEM –CSE (ARTIFICIAL INTELLIGENCE)

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	PCC	26AI3501	Responsible AI, Ethics & Policy	2	0	0	0	60	40	100	2
2	PCC	26AI3502	Autonomous System & Cognitive Robotics	2	0	0	0	60	40	100	2
3	IPCC	26AI3503	Deep Learning	3	0	2	0	60	40	100	4
4	IPCC	26AI3504	Generative AI	3	0	2	0	60	40	100	4
5	PCC	26AI3505	Cognitive Computing & Human AI Interaction	2	0	0	0	60	40	100	2
6	PCC	26AI3506	Design Studio IV: Innovation, Design Thinking & IP	1	0	0	2	100	--	100	2
7	PEC	26AI35XX	Professional Elective I / MOOC/DLI	2	0	0	2	100	--	100	3
8	AEC	26AI3507	Cognitive and Technical Skills-V	--	--	--	--	--	--	--	P/F
Total				15	0	4	4	500	200	700	19

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Professional Elective Courses (PEC-I)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				Lec tur e	Tut oria l	Pra ctic al	Pro ject	CIE Ma rks	SEE Mar ks	Total Marks	Cr ed its
				L	T	P	J				
1	PEC	26AI3508	Accelerated Data Science	2	0	0	2	100	-	100	03
2	PEC	26AI3509	LLM-Based Agent Frameworks & Orchestration	2	0	0	2	100	-	100	03
3	PEC	26AI3510	Cognitive Linguistics	2	0	0	2	100	-	100	03



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VI SEM – CSE (ARTIFICIAL INTELLIGENCE)

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	26AI3601	Image Processing and Computer Vision	3	0	2	0	60	40	100	4
2	PCC	26AI3602	Reinforcement Learning	3	0	0	0	60	40	100	3
3	IPCC	26AI3603	AI in Computer Security	3	0	2	0	60	40	100	4
4	PCC	26AI3604	Computer Networks	3	0	0	0	60	40	100	3
5	PEC	26AI36XX	Professional Elective II / MOOC/DLI	2	0	0	2	100	--	100	3
6	PROJ	26AI3605	Mini Project (CoE-based / Startup / Research Track)	0	0	0	4	100	--	100	2
7	OEC	26OEXXX	Open Elective I	3	0	0	0	60	40	100	3
8	AEC	26AI3606	Cognitive and Technical Skills-VI	--	--	--	--	--	--	--	P/F
Total				17	0	4	6	500	200	700	22

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Professional Elective Courses (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	26AI3607	Accelerated Computing	2	0	0	2	100	-	100	03
2	PEC	26AI3608	Multi-Agent AI Systems	2	0	0	2	100	-	100	03
3	PEC	26AI3609	Conversational AI and Spoken Language Understanding	2	0	0	2	100	-	100	03



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Open Elective Course (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	26OEXXX	Multimodal and Multilingual Language Perception	3	0	0	0	60	40	100	03
2	OEC	26OEXXX	Accelerated Computing (DLI)	3	0	0	0	60	40	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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VII SEM – CSE (ARTIFICIAL INTELLIGENCE)

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	PCC	26AI4701	Entrepreneurial Finance & AI-driven Deep-Tech Startups	2	0	0	0	60	40	100	2
2	IPCC	26AI4702	Designing MLOps for Enterprises	3	0	0	0	60	40	100	3
3	PEC	26AI47XX	Professional Elective III/MOOC/DLI	2	0	0	2	100	--	100	3
4	PEC	26AI47XX	Professional Elective IV/MOOC/DLI	2	0	0	2	100	--	100	3
5	OEC	26OEXXXX	Open Elective II	3	0	0	0	60	40	100	3
6	CPR	26AI4703	Capstone Project I	0	0	0	8	60	40	100	4
Total				12	0	0	12	440	160	600	18

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Professional Elective Courses (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	26AI4704	Edge AI and Robotics	2	0	0	2	100	-	100	03
2	PEC	26AI4705	Autonomous Agentic AI systems	2	0	0	2	100	-	100	03
3	PEC	26AI4706	Building AI Applications with Large Language Models	2	0	0	2	100	-	100	03



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Professional Elective Courses (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	100	-	100	03
1	PEC	26AI4707	Deep Learning for Science and Engineering	2	0	0	2				
2	PEC	26AI4708	Ethics, Safety & Governance of Agent AI	2	0	0	2				
3	PEC	26AI4709	Cybercrime Forensics & Digital Forensics	2	0	0	2	100	-	100	03



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Open Elective Course (OEC-II)											
SL	Course Type	Course Code	Course Name	Teaching Hours / Week				Examination			
				L e c t u r e	T u t o r i a l	P r a c t i c a l	P r o j e c t	C I E M a r k s	S E E M a r k s	Tot al Mar ks	
				L	T	P	J				
1	OEC	260EXXXX	Human Centric Automation and Industry 5.0	3	0	0	0	60	40	100	03
2	OEC	260EXXXX	GenAI and LLM (DLI)	3	0	0	0	60	40	100	03

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Professional Elective Courses (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	26AI4804	NPTEL/MOOC	2	0	0	2	100	-	100	03
2	PEC	26AI4805	Operationalizing Agent AI Systems	2	0	0	2	100	-	100	03
3	PEC	26AI4806	AI for Agriculture	2	0	0	2	100	-	100	03



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Professional Elective Courses

S.no	Domain	Domain Clusters	PEC-I	PEC-II	PEC-III	PEC-IV	PEC-V
			SEM – V	SEM- VI	SEM-VII	SEM-VII	SEM- VIII
			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	LLM based Agent Frameworks	Multi-Agent AI Systems	Autonomous Agentic AI Systems	Ethics, Safety & Governance of Agentic AI	Operationalizing Agentic AI Systems
3	Domain-3	AI Applications	Cognitive Linguistics	Conversational AI and spoken Language Understanding	Building AI Applications with Large Language Models	Cybercrime Forensics & Digital Forensics	AI for Agriculture



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Open Elective Courses

S.NO	6th Semester	7th Semester
	OEC-I	OEC-II
1	Multimodal and Multilingual Language Perception	Human Centric Automation and Industry 5.0
2	Accelerated Computing (DLI)	GenAI and LLM (DLI)