DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

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(A State Private University under the Karnataka Act No. 20 of 2013)

Approved by UGC & AICTE, New Delhi, Accredited by NAAC with A+ grade

Department of Computer Science and Engineering

(Artificial Intelligence and Data Science)

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

COMPUTER SCIENCE & ENGINEERING (Artificial Intelligence and Data Science)

(5th to 6th Semester)

With effect from 2024

B.Tech. PROGRAMME– 2024-28 BATCH



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V-SEMESTER

S.NO	Course Type	Course Code	Course Title	Teaching Hours / Week				Examination			credits
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	
				L	T	P	J				
1	PCC	24AD3501	COMPUTER NETWORKS	3	0	0	0	60	40	100	3
2	IPCC	24AD3502	DATA MINING AND PREDICTIVE MODELLING	3	0	2	0	60	40	100	4
3	IPCC	24AD3503	DEEP LEARNING	3	0	2	0	60	40	100	4
4	PCC	24AD3504	IOT FUNDAMENTALS AND ITS APPLICATIONS	3	0	0	0	60	40	100	3
5	IPCC	24AD3505	TIME SERIES ANALYSIS	3	0	2	0	60	40	100	4
6	PEC	24AD35XX	PROFESSIONAL ELECTIVE - I	3	0	0	0	60	40	100	3
7	TPC	24AD3506	COGNITIVE AND TECHNICAL SKILLS – V	-	-	-	-	-	-	-	0
TOTAL				**18**	**0**	**6**	**0**	**360**	**240**	**600**	**21**

Professional Elective - I	
Course Code	**Course Name**
24AD3507	BIG DATA COMPUTING
24AD3508	DEVOPS
24AD3509	KNOWLEDGE ENGINEERING
24AD3510	ACOUSTICS, IMAGE AND VIDEO PROCESSING

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VI-SEMESTER

S.NO	Course Type	Course Code	Course Title	Teaching Hours / Week				Examination			Credits
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	
				L	T	P	J				
1	PCC	24AD3601	RESPONSIBLE AI, ETHICS & POLICY	2	0	0	0	60	40	100	2
2	IPCC	24AD3602	APPLIED NLP AND GENERATIVE AI	3	0	2	0	60	40	100	4
3	IPCC	24AD3603	HIGH-PERFORMANCE COMPUTING	3	0	2	0	60	40	100	4
4	PCC	24AD3604	EDGE COMPUTING	3	0	0	0	60	40	100	3
5	PEC	24AD36XX	PROFESSIONAL ELECTIVE – II/MOOC	3	0	0	0	60	40	100	3
6	PROJ	24AD3605	MINI PROJECT (RESEARCH METHODOLOGY AND TOOLS)	0	0	0	4	100	--	100	2
7	OEC		OPEN ELECTIVE - I	3	0	0	0	60	40	100	3
8	TPC	24AD3606	COGNITIVE AND TECHNICAL SKILLS – VI	-	-	-	-	-	-	-	0
TOTAL				**17**	**0**	**4**	**4**	**460**	**240**	**700**	**21**

Professional Elective - II	
Course Code	**Course Name**
24AD3607	CLOUD-BASED AI APPLICATION DEVELOPMENT
24AD3608	MLOPS
24AD3609	SOFT COMPUTING TECHNIQUES
24AD3610	STREAM PROCESSING

OPEN ELECTIVE - I	
Course Code	**Course Name**
	BUSINESS ANALYTICS FOR FINTECH
	FOUNDATIONS TO INTERNET OF THINGS
	ARTIFICIAL INTELLIGENCE FOR ECONOMICS

16/09/2026

Chairperson
Department of CSE (AI & Data Science)
School of Engineering
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
Bengaluru South Dt.-562 112, Karnataka, India