



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E. New Delhi & Govt. of Maharashtra Affiliated to R.T.M. Nagpur University)

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AICTE ID No. 5435581; DTE CODE No. 4123; UNIVERSITY CODE No. 278

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AN AUTONOMOUS INSTITUTE



CURRICULUM

UNDER GRADUATE PROGRAMME

B.Tech Artificial Intelligence & Data Science

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Semester wise Credit distribution structure for Four Year B.Tech Program

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	08	08	--	--	--	--	--	--	16
Engineering Science Course		08	06	--	--	--	--	--	--	14
Programme Core Course (PCC)	Program Courses	--	02	11	09	15	09	10	--	56
Programme Elective Course (PEC)		--	--	--	--	03	06	02	06	17
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	02	02	02	04	04	--	14
Open Elective(OE) Other than a particular program		--	--	03	02	02	--	--	--	07
Vocational and Skill Enhancement Course(VSEC)	Skill Courses	--	02	--	02	--	02	--	--	06
Ability Enhancement Course (AEC-01,AEC-02)	Humanities Social Science and Management (HSSM)	02	02	--	02	--	--	--	--	06
Entrepreneurship/Economics/Management Courses)		--	--	02	02	--	--	--	--	04
Indian Knowledge System(IKS)		02	--	--	--	--	--	--	--	02
Value Education Course(VEC)		--	--	02	02	--	--	--	--	04
Research Methodology	Experiential Learning Courses	--	--	--	--	--	--	02	--	02
Comm. Engg. Project (CEP)/Field Project(FP)		--	--	02	--	--	--	--	--	02
Project		--	--	--	--	--	--	04	--	04
Internship/OJT		--	--	--	--	--	--	--	12	12
Co-curricular(CC)	Liberal Learning Courses	02	02	--	--	--	--	--	--	04
Total Credits		22	22	22	21	22	21	22	18	170

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FIRST SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Mark s
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY1A1T	BSC	ASH	Basic Calculus & Differential Equations	3	1	0	4	40	60	--	--	100
2	24UFY1A2T	BSC	ASH	Engineering Chemistry	3	0	0	3	40	60	--	--	100
3	24UFY1A2P	BSC	ASH	Lab: Engineering Chemistry	0	0	2	1	--	--	25	25	50
4	24UFY1A3T	ESC	CSE	Programming for Problem Solving	3	0	0	3	40	60			100
5	24UFY1A3P	ESC	CSE	Lab: Programming for Problem Solving	0	0	2	1	--	--	25	25	50
6	24UFY1A4T	ESC	EE	Basics of Electrical & Electronics Engineering	3	0	0	3	40	60	--	--	100
7	24UFY1A4P	ESC	EE	Lab: Basics of Electrical & Electronics Engineering	0	0	2	1	--	--	25	25	50
8	24UFY1A5T	IKS	ASH	Indian Traditionalknowledge	2	0	0	2	20	30	--	--	50
9	24UFY1A6P	SEC1	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
10	24UFY111P	CC1	ASH	Liberal Learning Course: Yoga and Meditation	0	1	2	2	--	-	50	--	50
	24UFY112P			Liberal Learning Course: Physical Education(Sports)									
	24UFY113P			Liberal Learning Course : Music									
	24UFY114P			Liberal Learning Course: National Service Scheme (NSS)									
					14	3	10	22	180	270	150	100	700

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SECOND SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1.	24UFY2B1T	BSC	ASH	Integral Vector Calculus & Statistics	3	1	0	4	40	60	--	--	100
2.	24UFY2B2T	BSC	ASH	Engineering Physics	3	0	0	3	40	60	--	--	100
3.	24UFY2B2P	BSC	ASH	Lab: Engineering Physics	0	0	2	1	--	--	25	25	50
4.	24UFY2C3T	ESC	ETC	Digital Circuits & Logic Design	3	0	0	3	40	60	--	--	100
5.	24UFY2C3P	ESC	ETC	Lab: Digital Circuits & Logic Design	0	0	2	1	--	--	25	25	50
6.	24UFY2B4T	ESC	ME	Computer Aided Graphics	1	0	0	1	20	30	--	--	50
7.	24UFY2B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1	--	--	25	25	50
8.	24UFY223T	PCC	AI&DS	Elements of Artificial Intelligence	2	0	0	2	20	30	--	--	50
9.	24UFY2B6T	AEC	ASH	Communication Skill	1	0	0	1	20	30	--	--	50
10.	24UFY2B6P	AEC	ASH	Lab: Communication Skill	0	0	2	1	--	--	25	25	50
11	24UFY2A7P	SEC2	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2			25	25	50
12.	24UFY211P	CC2	ASH	Liberal Learning Course: Creative Arts	0	1	2	2	--	-	50	-	50
	24UFY212P			Liberal Learning Course:Professional Skills									
	24UFY213P			Liberal Learning Course: Photography & Film Making									
	24UFY214P			Liberal Learning Course: Foreign Language (German Or French)									
				Total	13	3	12	22	180	270	175	125	750

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THIRD SEMESTER

Sr No	Course Code	Course Category	BoS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UAI301T	PCC	AI&DS	Data Structure	3	0	0	3	40	60	--	--	100
2	24UAI301P	PCC	AI&DS	Lab: Data Structure	0	0	2	1	--	--	25	25	50
3	24UBS302T	MDM	ASH	Multidisciplinary Minor :01	2	0	0	2	20	30	--	--	50
4	24UAI303T	PCC	AI&DS	Object Oriented Programming	3	0	0	3	40	60	--	--	100
5	24UAI303P	PCC	AI&DS	Lab: Object Oriented Programming	0	0	2	1	--	--	25	25	50
6	24UAI304T	PCC	AI&DS	Computer Architecture & Organization	3	0	0	3	40	60	--	--	100
7	24UOE3XXT	OE	AI&DS	Open Elective: 01	3	0	0	3	40	60	--	--	100
8	24UBS306T	EMC	ASH	Digital Economy and Management	2	0	0	2	20	30	--	--	50
9	24UAI307T	VEC	AI&DS	Digital and Technological Solution	2	0	0	2	20	30	--	--	50
10	24UAI308P	FP	AI&DS	Industry Internship Project	0	0	4	2	--	--	25	25	50
				Total	18	0	8	22	220	330	75	75	700

Open Elective: 01		
S.N	Course Code	Course Name
1	24UOE323T	Fundamentals of Artificial Intelligence
2	24UOE324T	Fundamentals of Data Science
Multidisciplinary Minor :01		
S.N	Course Code	Course Name
1	24UBS302T	Discrete Mathematics and Graph Theory

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FOURTH SEMESTER

Sr.No	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UAI401T	PCC	AI&DS	Theory of Computation	3	1	0	4	40	60	--	--	100
2	24UAI402T	PCC	AI&DS	Operating System	3	1	0	4	40	60	--	--	100
3	24UAI402P	PCC	AI&DS	Lab : Operating System	0	0	2	1	--	--	25	25	50
4	24UBS401T /24UII405T	MDM	ASH/ IIOT	Multidisciplinary Minor :02	2	0	0	2	20	30	--	--	50
5	24UOE4XXT	OE	AI&DS	Open Elective:02	2	0	0	2	20	30	--	--	50
6	24UAI403P	VSEC	AI&DS	Lab: Vocational and Skill Enhancement Course-I	0	0	2	1	--	--	25	25	50
7	24UAI404P	VSEC	AI&DS	Lab: Vocational and Skill Enhancement Course-II	0	0	2	1	--	--	25	25	50
8	24UBS407T	ACE-02	ASH	Professional Communication	2	0	0	2	20	30	--	--	50
9	24UBS408T	EMC	ASH	Entrepreneurship Development & Startup	2	0	0	2	20	30	--	--	50
10	24UBS410T	VEC	ASH	Environmental Science	2	0	0	2	20	30	--	--	50
				Total	16	2	6	21	180	270	75	75	600

Open Elective : 02		
Sr.No.	Course Code	Course Name
1	24UOE423T	Python for Data Science
2	24UOE424T	Statistical Computing with R
Multidisciplinary Minor :02		
Sr.No.	Course Code	Course Name
1	24UBS401T	Statistics for AI&DS
2	24UII405T	Introduction to Controller for IOT

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FIFTH SEMESTER

Sr. No	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UAI501T	PCC	AI&DS	Database Management System	3	1	0	4	40	60	--	--	100
2	25UAI501P	PCC	AI&DS	Lab: Database Management System	0	0	2	1	--	--	25	25	50
3	25UAI502T	PCC	AI&DS	Design Analysis of Algorithm	3	0	0	3	40	60	--	--	100
4	25UAI502P	PCC	AI&DS	Lab: Design Analysis of Algorithm	0	0	2	1	--	--	25	25	50
5	25UAI503T	PCC	AI&DS	Machine Learning	3	0	0	3	40	60	--	--	100
6	25UAI503P	PCC	AI&DS	Lab: Machine Learning	0	0	2	1	--	--	25	25	50
7	25UAI504T	PCC	AI&DS	Sensor & Actuators for IOT	2	0	0	2	20	30	--	--	50
8	25UAI5XXT	PEC	AI&DS	Program Elective Course:01	3	0	0	3	40	60	--	--	100
9	25UAI505P	MDM	AI&DS	Multidisciplinary Minor :03	0	0	4	2	--	--	100	--	100
10	25UOE5XXT	OE	AI&DS	Open Elective:03	2	0	0	2	20	30	--	--	50
				Total	16	1	10	22	200	300	175	75	750

Open Elective: 03		
S.N.	Course Code	Course Name
1	25UOE523T	AI for Cyber Security
2	25UOE524T	Augmented Reality and Virtual Reality

Multidisciplinary Minor :03		
S.N.	Course Code	Course Name
1	25UAI505P	Employability Enhancement Skills

Program Elective Course :01		
S.N.	Course Code	Course Name
1	25UAI521T	Human Computer Interface (HCI)
2	25UAI522T	Cloud Computing
3	25UAI523T	Information Security


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SIXTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UAI601T	PCC	AI&DS	Deep Learning	3	1	0	4	40	60	--	--	100
2	25UAI601P	PCC	AI&DS	Lab: Deep Learning	0	0	2	1	--	--	25	25	50
3	25UAI602T	PCC	AI&DS	Software Engineering	3	1	0	4	40	60	--	--	100
4	25UAI6XXT	PEC	AI&DS	Program Elective Course :02	3	0	0	3	40	60	--	--	100
5	25UAI6XXT	PEC	AI&DS	Program Elective Course :03	3	0	0	3	40	60	--	--	100
6	25URO607T/ 25UII604T	MDM	RAI/ IIOT	Multidisciplinary Minor :04	3	1	0	4	40	60	--	--	100
7	25UAI603P	VSEC	AI&DS	Lab: Vocational and Skill Enhancement Course-III	0	0	2	1	--	--	25	25	50
8	25UAI604P	VSEC	AI&DS	Lab: Vocational and Skill Enhancement Course-IV	0	0	2	1	--	--	25	25	50
				Total	15	3	6	21	200	300	75	75	650

Program Elective Course :02		
S.N.	Course Code	Course Name
1.	25UAI621T	Pattern recognition
2.	25UAI622T	Robotics and Intelligent system
3.	25UAI623T	Infotainment

Program Elective Course :03		
S.N.	Course Code	Course Name
1.	25UAI631T	Explainable AI
2.	25UAI632T	AI in Communication
3.	25UAI633T	NO-SQL

Multidisciplinary Minor :04		
S.N.	Course Code	Course Name
1	25URO607T	Data Handling and Visualization
2	25UII604T	Data Analytic for IOT

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SEVENTH SEMESTER

Sr.No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UAI701T	PCC	AI&DS	Advance Deep Learning	3	1	0	4	40	60	--	--	100
2	26UAI701P	PCC	AI&DS	Lab: Advance Deep Learning	0	0	2	1	--	--	25	25	50
3	26UAI702T	PCC	AI&DS	Data Mining	3	1	0	4	40	60	--	--	100
4	26UAI702P	PCC	AI&DS	Lab: Data Mining	0	0	2	1	--	--	25	25	50
5	26UAI7XXT	PEC	AI&DS	Program Elective Course: 04	2	0	0	2	20	30	--	--	50
6	26URO704T/ 26UII705T	MDM	RAI/ IIOT	Multidisciplinary Minor :05	3	1	0	4	40	60	--	--	100
7	26UAI703T	RM	AI&DS	Research Methodology	2	0	0	2	20	30	--	--	50
8	26UAI704P	Project	AI&DS	Project	0	0	12	4	--	--	50	50	100
				Total	13	3	16	22	160	240	100	100	600

Program Elective Course :04		
S.N.	Course Code	Corse Name
1.	26UAI721T	Data Forensic
2.	26UAI722T	Information Retrieval
3.	26UAI723T	Cognitive Computing

Multidisciplinary Minor:05		
S.N.	Course Code	Corse Name
1	26URO704T	Digital Signal & Image Processing
2	26UII705T	IOT Digital Twins

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EIGHTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UAI821T	PEC	AI&DS	Program Elective Course:05 (MOOC)*	3	0	0	3	40	60	--	--	100
2	26UAI832T	PEC	AI&DS	Program Elective Course:06 (MOOC)*	3	0	0	3	40	60	--	--	100
3	26UAI801P	Internship /OJT	AI&DS	Internship	0	0	8	12	--	--	150	150	300
				Total	6	0	8	18	80	120	150	150	500

*The list for MOOC Courses will be shared at the beginning of semester.

End Semester Examination will be conducted by Priyadarshini College of Engineering.

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Annexure-1
Multidisciplinary Minor Subjects
Basket : Robotics & AI

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UBS302T	ASH	Discrete Mathematics and Graph Theory	2
2	IV	24UBS401T	ASH	Statistics for AI&DS	2
3	V	25UAI505P	AI &DS	Employ ability Enhancement Skill	2
4	VI	25URO607T	RAI	Data Handling and Visualization	4
5	VII	26URO704T	RAI	Digital Signal & Image Processing	4
Total					14

Basket :Industrial IOT

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UBS302T	ASH	Discrete Mathematics and Graph Theory	2
2	IV	24UII405T	ASH	Introduction to Controller for IOT	2
3	V	25UAI505P	AI&DS	Employ ability Enhancement Skill	2
4	VI	25UII604T	IIOT	Data Analytic for IOT	4
5	VII	26UII705T	IIOT	IOT Digital Twins	4
Total					14

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Subject Code	Course Name OE:01
1.	24UOE323T	Fundamentals of Artificial Intelligence
2.	24UOE324T	Python for Data Science

Semester IV

Sr. No.	Subject Code	Course Name OE:02
1.	24UOE423T	Python for Data Science
2.	24UOE424T	Statistical Computing with R

Semester V

Sr. No.	Subject Code	Course Name OE: 03
1.	25UOE523T	AI for Cyber Security
2.	25UOE524T	Augmented Reality and Virtual Reality

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Annexure-3
List of Professional Elective Courses (PEC)

Semester-V

Sr. No.	Course Code	Course Name (PEC:01)
1.	25UAI521T	Human Computer Interface (HCI)
2.	25UAI522T	Cloud Computing
3.	25UAI523T	Information Security

Semester-VI

Sr. No.	Course Code	Course Name (PEC:02)	Course Code	Course Name (PEC:03)
1.	25UAI621T	Pattern Recognition	25UAI631T	Explainable AI
2.	25UAI622T	Robotics and Intelligent system	25UAI632T	AI in Communication
3.	25UAI623T	Infotainment	25UAI633T	NO-SQL

Semester- VII

Sr. No.	Course Code	Course Name (PEC-04)
1.	26UAI721T	Data Forensic
2.	26UAI722T	Information retrieval
3.	26UAI723T	Cognitive Computing

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Annexure-4
B.Tech Honor's Data Analytics

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UHSAI4T	PCC	AI&DS	Python for AI	3	0	0	3	40	60	--	--	100
2	IV	24UHSAI4P	PCC	AI&DS	Lab: Python for AI	0	0	2	1	--	--	25	25	50
3	V	25UHSAI5T	PCC	AI&DS	Exploratory Data Analysis	3	0	0	3	40	60	--	--	100
4	V	25UHSAI5P	PCC	AI&DS	Lab: Exploratory Data Analysis	0	0	2	1	--	--	25	25	50
5	VI	25UHSAI6T	PCC	AI&DS	Data Mining & Data Wrangling	3	0	0	3	40	60	--	--	100
6	VI	25UHSAI6P	PCC	AI&DS	Lab: Data Mining & Data Wrangling	0	0	2	1	--	--	25	25	50
7	VII	26UHSAI7T	PCC	AI&DS	Big Data	3	0	0	3	40	60	--	--	100
8	VII	26UHSAI7P	Project	AI&DS	Dissertation	0	0	6	3	--	--	50	50	100
					Total	12	0	12	18	160	240	125	125	650

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Annexure-5
**B.Tech Double Minor (Multidisciplinary)
Data Science**

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UDMAI4T	PCC	AI&DS	Fundamental of Machine Learning	3	1	0	4	40	60	--	--	100
2	V	25UDMAI5T	PCC	AI&DS	Big Data Analytic	3	0	0	3	40	60	--	--	100
3	V	25UDMAI5P	PCC	AI&DS	Lab: Big Data Analytic	0	0	2	1	--	--	25	25	50
4	VI	25UDMAI6T	PCC	AI&DS	H-Computing	3	1	0	4	40	60	--	--	100
5	VII	26UDMAI6T	PCC	AI&DS	Reinforcement Learning	3	0	0	3	40	60	--	--	100
6	VII	26UDMAI7P	Project	AI&DS	Dissertation	0	0	6	3	--	--	50	50	100
					Total	12	2	8	18	160	240	75	75	550

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SCHEME OF EXAMINATION
B. TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Exit Scheme
Certificate Course After B.Tech First Year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCAIT	PCC	AI&DS	Web Designer	4	0	0	4	40	60	-	-	100
2	24UECCAIP	PCC	AI&DS	Skill Based Lab/Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

Diploma Course After B.Tech Second Year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCAIT	PCC	AI&DS	Certified Software Engineering(Devop)	4	0	0	4	40	60	-	-	100
2	25UEDCAIP	PCC	AI&DS	Skill Based Lab/Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

B.Vocational Course After B.tech Third Year (08 Credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVAIT	PCC	AI&DS	Certified Cloud Engineer (AWS, AZURE)	4	0	0	4	40	60	-	-	100
2	26UEBVAIP	PCC	AI&DS	Project/Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	08	40	60	50	50	200

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational

BOS Chairman
Dr.(Mrs.) S. S. Golait

Dean Academics
Dr.(Mrs.) S. N. Rao

Principal
Dr. S. A. Dhale