



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. ROBOTICS and ARTIFICIAL INTELLIGENCE

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. ROBOTICS AND ARTIFICIAL INTELLIGENCE

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	13	13	14	05	06	64
Programme Elective Course (PEC)		--	--	--	--	03	06	06	--	15
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	02	02	04	02	02	--	12
Open Elective(OE) Other than a particular program		--	--	03	02	02	--	--	--	07
Vocational and Skill Enhancement Course(VSEC)	Skill Courses	--	02	--	01	--	01	--	--	04
Ability Enhancement Course (AEC-01,AEC-02)	Humanities Social Science and Management (HSSM)	02	02	--	02	--	--	--	--	06
Entrepreneurship/Economics/Management Courses)		--	--	02	--	--	--	--	--	02
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	22	22	23	19	18	170

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SCHEME OF EXAMINATION
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FIRST 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	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 Traditional Knowledge	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									
	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	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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SCHEME OF EXAMINATION
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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	24URO301T	PCC	RAI	Principles of Robotics	3	0	0	3	40	60	--	--	100
2	24URO302T	PCC	RAI	Operating System	3	0	0	3	40	60	--	--	100
3	24URO303P	PCC	RAI	Lab: Micro-controller & Embedded System	0	1	2	2	--	--	25	25	50
4	24URO304P	PCC	RAI	Lab: Analog and Digital Circuits	0	1	2	2	--	--	25	25	50
5	24URO305P	PCC	RAI	Lab: Python Laboratory	0	0	2	1	--	--	25	25	50
6	24UOE3XXT	OE	RAI	Open Elective:01	3	0	0	3	40	60	--	--	100
7	24UBS306T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	--	--	50
8	24UBS308T	VEC	ASH	Environmental Science	2	0	0	2	20	30	--	--	50
9	24UBS314T	MDM	ASH	Linear Algebra for Data Science	2	0	0	2	20	30	--	--	50
10	24URO310P	ELC	RAI	Field Project/ Community Engagement Project	0	0	4	2	--	--	25	25	50
				Total	15	2	10	22	180	270	100	100	650

Open Elective:01		
S.N	Course Code	Course Name
1	24UOE354T	Application of AI in Robotics
2	24UOE355T	Computer Integrated Manufacturing

Multidisciplinary Minor: 01		
S.N	Course Code	Course Name
1	24UBS314T	Linear Algebra for Data Science

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SCHEME OF EXAMINATION
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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	24URO401T	PCC	RAI	Artificial Intelligence - Principles and Techniques	3	0	0	3	40	60	--	--	100
2	24URO402T	PCC	RAI	Robot Kinematics and Dynamics	3	0	0	3	40	60	--	--	100
3	24URO402P	PCC	RAI	Lab: Robot Kinematics and Dynamics	0	0	2	1	--	--	25	25	50
4	24UAE406T/ 24UAI405T	MDM	RAI	Multidisciplinary Minor: 02	2	0	0	2	25	25	–	–	50
5	24UOE4XXT	OE	RAI	Open Elective : 02	2	0	0	2	20	30	--	--	50
6	24URO403T	PCC	RAI	Data Structures and Algorithm	3	0	0	3	40	60	–	–	100
7	24URO404T	PCC	RAI	Robot operating System	2	0	0	2	20	30	--	--	50
8	24URO405P	VSEC	RAI	Vocational Course (Robot Programming)	0	1	2	2	--	--	25	25	50
9	24UBS407T	AEC	ASH	Professional Communication	2	0	0	2	20	30	--	--	50
10	24UBS409T	VEC	ASH	Professional Ethics for Engineers	2	0	0	2	20	30	--	--	50
				Total	19	1	4	22	225	325	50	50	650

Open Elective :02		
S.N.	Course Code	Course Name
1	24UOE454T	Robotics & Intelligent Systems
2	24UOE455T	Robot Sensor Technology
Multidisciplinary Minor: 02		
S.N.	Course Code	Course Name
1	24UAE406T	Fundamentals of Aeronautics
2	24UAI405T	Fundamentals of Data Science

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SCHEME OF EXAMINATION
B. TECH. ROBOTICS AND ARTIFICIAL INTELLIGENCE

THIRD SEMESTER (2025-26)

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	25URO301T	PCC	RAI	Principles of Robotics	3	0	0	3	40	60	-	-	100
2	25URO302T	PCC	RAI	Operating System	3	0	0	3	40	60	-	-	100
3	25URO303P	PCC	RAI	Lab :Micro-Controller & Embedded System	0	1	2	2	-	-	25	25	50
4	25URO304P	PCC	RAI	Lab :Analog and Digital Circuits	0	1	2	2	-	-	25	25	50
5	25URO305P	PCC	RAI	Python Laboratory	0	0	2	1	-	-	25	25	50
6	25UOE3XXT 25UOE3XXT	OE	RAI	Open Elective :01	3	0	0	3	40	60	-	-	100
7	25UBS306T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	-	-	50
8	25UBS308T	VEC	ASH	Environmental Science	2	0	0	2	20	30	-	-	50
9	25UBS314T	MDM	ASH	Multidisciplinary Minor: 01	2	0	0	2	20	30	-	-	50
10	25URO310P	CEP	RAI	Field Project/Community Engagement Project	0	0	4	2	-	-	25	25	50
				Total	15	2	10	22	180	270	100	100	650

Open Elective : 01		
S.N.	Course Code	Course Name
1	25UOE354T	Application of AI In Robotics
2	25UOE355T	Computer Integrated Manufacturing Systems (CIMS)
Multidisciplinary Minor: 01		
S.N.	Course Code	Course Name
1	25UBS314T	Linear Algebra for Data Science

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FOURTH SEMESTER (2025-26)

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	25URO401T	PCC	RAI	Artificial Intelligence - Principles and Techniques	3	0	0	3	40	60	--	--	100
2	25URO402T	PCC	RAI	Robot Kinematics and Dynamics	3	0	0	3	40	60	--	--	100
3	25URO402P	PCC	RAI	Lab: Robot Kinematics and Dynamics	0	0	2	1	--	--	25	25	50
4	25URO403P	PCC	RAI	Lab: Data Structures and Algorithm	0	1	2	2	--	--	25	25	50
5	25URO404P	PCC	RAI	Lab: Robot Operating System	0	1	2	2	--	--	25	25	50
6	25URO405P	VSEC	RAI	Lab: Vocational Course(Robot Programming)	0	0	2	1	--	--	25	25	50
7	25URO406T	PCC	RAI	Sensors & Actuators	2	0	0	2	20	30	-	-	50
8	25UAI405T 25UAE406T	MDM	AI&DS /AERO	Multidisciplinary Minor: 02	2	0	0	2	20	30	—	—	50
9	25UOE454T 25UOE455T	OE	RAI	OPEN ELECTIVE:02	2	0	0	2	20	30	--	--	50
10	25UBS407T	AEC	HSSM	Professional Communication	2	0	0	2	20	30	--	--	50
11	25UBS409T	VEC	ASH	Professional Ethics for Engineers	2	0	0	2	20	30	--	--	50
				Total Credits	16	2	8	22	180	270	100	100	650

Open Elective : 02		
S.N.	Course Code	Course Name
1	25UOE454T	Robotics & Intelligent Systems
2	25UOE455T	Robot Sensor Technology

Multidisciplinary Minor: 02		
S.N.	Course Code	Course Name
1	25UAI405T	Fundamentals of Data Science
2	25UAE406T	Fundamentals of Aeronautics

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SCHEME OF EXAMINATION
B. TECH. ROBOTICS AND ARTIFICIAL INTELLIGENCE

FIFTH SEMESTER

Sr. No.	Course Code	Course Category	BOS /Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ES E	C E	ES E	
1	25URO501T	PCC	RAI	Machine Learning	3	1	0	4	40	60	-	-	100
2	25URO501P	PCC	RAI	Machine Learning Laboratory	0	0	2	1	-	-	25	25	50
3	25URO502T	PCC	RAI	Industrial Robotics	3	1	0	4	40	60	-	-	100
4	25URO502P	PCC	RAI	Industrial Robotics Laboratory	0	0	2	1	-	-	25	25	50
5	25URO503T	PCC	RAI	Mechanism of Robot Systems	3	0	0	3	40	60	-	-	100
6	25URO5XXT	PEC	RAI	Program Elective Course:01	3	0	0	3	40	60	-	-	100
7	25UAI506T/ 25UAE506T	MDM	AI&DS/ AERO	Multidisciplinary Minor: 03	3	0	0	3	40	60	-	-	100
8	25UAI506P/ 25UAE506P	MDM	AI&DS/ AERO	Lab: Multidisciplinary Minor: 03	0	0	2	1	-	-	25	25	50
9	25UOE5XXT	OE	RAI	Open Elective :03	2	0	0	2	20	30	-	-	50
				Total	17	2	6	22	220	330	75	75	700

Open Elective:03

S.N.	Course Code	Course Name
1	25UOE553T	Current Trends in Image Processing & Pattern Recognition
2	25UOE554T	Smart Application in Robotics (Applied Robotics)

Program Elective Course :01

S.N.	Course Code	Course Name
1	25URO521T	Design Analysis of Algorithm
2	25URO522T	Computer Networks
3	25URO523T	Theory of Computation

Multidisciplinary Minor: 03

S.N.	Course Code	Course Name
1	25UAI506T	Computational Data Analytics
2	25UAI506P	Lab: Computational Data Analytics
3	25UAE506T	Drone Technology
4	25UAE506P	Lab: Drone Technology

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SCHEME OF EXAMINATION
B. TECH. ROBOTICS AND ARTIFICIAL INTELLIGENCE

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	25URO601T	PCC	RAI	Digital Image Processing	3	0	0	3	40	60	-	-	100
2	25URO601P	PCC	RAI	Lab: Digital Image Processing	0	0	2	1	-	-	25	25	50
3	25URO602T	PCC	RAI	Mobile Robotics & Control	3	0	0	3	40	60	-	-	100
4	25URO603T	PCC	RAI	Industrial IOT	3	0	0	3	40	60	-	-	100
5	25URO603P	PCC	RAI	Lab: Industrial IOT	0	0	2	1	-	-	25	25	50
6	25URO604T	PCC	RAI	Compiler Design	3	0	0	3	40	60	-	-	100
7	25URO6XXT	PEC	RAI	Program Elective Course:02	3	0	0	3	40	60	-	-	100
8	25URO6XXT	PEC	RAI	Program Elective Course:03	3	0	0	3	40	60	-	-	100
9	25URO605P	MDM	RAI	Multidisciplinary Minor: 04	0	0	4	2	-	-	100	-	100
10	25URO608P	VSEC	RAI	Lab: VSC- DSP Practical	0	0	2	1	-	-	25	25	50
				Total	18	0	10	23	240	360	175	75	850

Program Elective Course: 02		
S.N.	Course Code	Course Name
1	25URO621T	Robotic Process Automation
2	25URO622T	Robotics in FMCG
3	25URO623T	Automation System Design

Program Elective Course :03		
S.N.	Course Code	Course Name
1	25URO631T	Field & Service Robotics
2	25URO632T	Cloud Computing
3	25URO633T	Blockchain Technology

Multidisciplinary Minor:04		
S.N.	Course Code	Course Name
1	25URO605P	Employability Enhancement Skills

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SCHEME OF EXAMINATION
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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	26URO701T	PCC	RAI	Deep Learning	3	1	0	4	40	60	-	-	100
2	26URO701P	PCC	RAI	Lab :Deep Learning	0	0	2	1	-	-	25	25	50
3	26URO7XXT	PEC	RAI	Program Elective Course: 04	3	0	0	3	40	60	-	-	100
4	26URO7XXT	PEC	RAI	Program Elective Course: 05	3	0	0	3	40	60	-	-	100
5	26UAI705T/ 26UAE706T	MDM	AIDS/ AERO	Multidisciplinary Minor: 05	2	0	0	2	20	30	-	-	50
6	26URO702T	RM	RAI	Research Methodology (MOOC- Optional)	2	0	0	2	20	30	-	-	50
7	26URO703P	Project	RAI	Project-Phase I/ Seminar	0	0	8	4	-	-	50	50	100
				Total	13	1	10	19	160	240	75	75	550

Program Elective Course: 04		
S.N.	Course Code	Course Name
1	26URO721T	Computer Vision
2	26URO722T	Aerial Robotics

Program Elective Course : 05		
S.N.	Course Code	Course Name
1	26URO731T	Big Data Analytics
2	26URO732T	Additive Manufacturing in Robotics

Multidisciplinary Minor : 05		
S.N.	Course Code	Course Name
1	26UAI705T	Application of Data Science and NLP
2	26UAE706T	Digitalization & Advances in Aerospace Industry

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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	26URO8XXT	PEC	RAI	Program Elective Course:05 (MOOC)*	3	0	0	3	40	60	-	-	100
2	26URO8XXT	PEC	RAI	Program Elective Course:06 (MOOC)*	3	0	0	3	40	60	-	-	100
3	26URO801P	Internship/OJT	RAI	Internship/Project	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
Basket of Multidisciplinary Minor Subjects

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	25UBS314T	ASH	Linear Algebra for data science	2
2	IV	25UAI405T	AIDS	Fundamentals of Data science	2
		25UAE406T	AERO	Fundamentals of Aeronautics	
3	V	25UAI506T	AIDS	Computational data analytics	3
		25UAE506T	AERO	Drone technology	
		25UAI506P	AIDS	Lab: Computational data analytics	1
		25UAE506P	AERO	Lab: Drone technology	
4	VI	25URO604P	RAI	Employability Enhancement skills	2
5	VII	26UAI705T	AIDS	Application of data science and NLP	2
		26UAE706T	AERO	Digitalization and advances in Aerospace industry	
				Total	12

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SCHEME OF EXAMINATION
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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	25UOE354T	Application of AI in Robotics
2.	25UOE355T	Computer Integrated Manufacturing Systems (CIMS)

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	25UOE454T	Robot & Intelligent Systems
2.	25UOE455T	Robot Sensor Technology

Semester V

Sr. No.	Course Code	Course Name OE:03
1.	25UOE554T	Smart Application in Robotics (Applied Robotics)
2.	25OE553T	Current Trends in Image Processing & Pattern Recognition

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Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. ROBOTICS AND ARTIFICIAL INTELLIGENCE

Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

Sr. No.	Course Code	Course Name PEC-01
1	25URO521T	Design Analysis of Algorithm
2	25URO522T	Computer Networks
3	25URO523T	Theory of Computation

Semester-VI

Sr. No.	Course Code	Course Name PEC-02
1	25URO621T	Robotic Process Automation
2	25URO622T	Robotics in FMCG
3	25URO623T	Automation System Design

Sr. No.	Course Code	Course Name PEC-03
1	25URO631T	Field & Service Robotics
2	25URO632T	Cloud Computing
3	25URO633T	Blockchain Technology

Semester-VII

Sr. No.	Course Code	Course Name PEC-04
1	26URO721T	Computer Vision
2	26URO722T	Aerial Robotics

Sr. No.	Course Code	Course Name PEC-05
1	26URO731T	Big Data Analytics
2	26URO732T	Additive Manufacturing in Robotics

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Annexure-4
B. Tech. Honors in Data Science

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UHSRO4T	PCC	RAI	Fundamentals of Programming	3	0	0	3	40	60	-	-	100
2	IV	24UHSRO4P	PCC	RAI	Lab: Fundamentals of Programming	0	0	2	1	-	-	25	25	50
3	V	25UHSRO5T	PCC	RAI	Data Handling & Machine Learning	3	0	0	3	40	60	-	-	100
4	V	25UHSRO5P	PCC	RAI	Lab: Data Handling & Machine Learning	0	0	2	1	-	-	25	25	50
5	VI	25UHSRO6T	PCC	RAI	Deep Learning & Big Data Technologies	3	0	0	3	40	60	-	-	100
6	VI	25UHSRO6P	PCC	RAI	Lab: Deep Learning & Big Data Technologies	0	0	2	1	-	-	25	25	50
7	VII	26UHSRO7T	PCC	RAI	Advanced Data Science Techniques	3	0	0	3	40	60	-	-	100
8	VII	26UHSRO7P	Project	RAI	Project	0	0	6	3	-	-	50	50	100
					Total	12	0	12	18	160	240	125	125	650

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SCHEME OF EXAMINATION
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Annexure-5
**B. Tech. Double Minor (Multidisciplinary)
Robotics & Automation**

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UDMRO4T	PCC	RAI	Robotics & Control	3	0	0	3	40	60	-	-	100
2	IV	24UDMRO4P	PCC	RAI	Lab : Robotics & Control	0	0	2	1	-	-	25	25	50
3	V	25UDMRO5T	PCC	RAI	Real Time Operating System	3	1	0	4	40	60	-	-	100
4	VI	25UDMRO6T	PCC	RAI	Mobile Robotics	3	0	0	3	40	60	-	-	100
5	VI	25UDMRO6P	PCC	RAI	Lab : Mobile Robotics	0	0	2	1	-	-	25	25	50
6	VII	26UDMRO7T	PCC	RAI	Industrial Process Automation	3	0	0	3	40	60	-	-	100
7	VII	26UDMRO7P	Project	RAI	Project	0	0	6	3	-	-	50	50	100
					Total	12	1	10	18	160	240	100	100	600

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SCHEME OF EXAMINATION
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Exit Scheme

Certificate Course After B.Tech First year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCRO3T	PCC	RAI	Data Visualization	4	0	0	4	40	60	-	-	100
2	24UECCRO3P	PCC	RAI	Lab : Data Visualization	0	0	8	4	-	-	50	50	100
				Total	4	0	8	8	40	60	50	50	200

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

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCRO4T	PCC	RAI	Robot Simulation & Control	4	0	0	4	40	60	-	-	100
2	25UEDCRO4P	PCC	RAI	Lab : Robot Simulation & Control	0	0	8	4	-	-	50	50	100
				Total	4	0	8	8	40	60	50	50	200

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

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVRO5T	PCC	RAI	Cloud for Robotics	4	0	0	4	40	60	-	-	100
2	26UEBVRO5P	PCC	RAI	Project / Internship	0	0	8	4	-	-	50	50	100
				Total	4	0	8	8	40	60	50	50	200

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational
RO: Robotics and Artificial Intelligence

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