



Integral University, Lucknow

Department of Computer Science and Engineering

M. Tech. Computer science and Engineering (Specialization in Robotics and Artificial Intelligence)

w.e.f. Session 2026-27

Year/Semester: I / I (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Category	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes									United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics				
1	CS561	Robot Kinematics and Dynamics	Theory	Core	3	1	0	40	20	60	40	100	4	√	√	√								
2	CS570	Artificial Intelligence for Robotics	Theory		3	1	0	40	20	60	40	100	4	√	√	√								
3	CS571	Introduction to Robotics	Theory		3	1	0	40	20	60	40	100	4	√		√								
4	CS546	Mathematical Programming	Theory		3	1	0	40	20	60	40	100	4	√	√	√								
5	CS563	Robot Software Practical	Practical		0	0	4	30	30	60	40	100	2	√	√	√								
6	CS572	Advance Python Programming Lab	Practical		0	0	2	30	30	60	40	100	1	√	√	√								
TOTAL					12	4	6	220	140	360	240	600	19											

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M. Tech. Computer science and Engineering (Specialization in Robotics and Artificial Intelligence)

w.e.f. Session 2026-27

Year/Semester: I / II (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Category	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes								United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
1	CS562	Planning and decision Making	Theory	Core	3	1	0	40	20	60	40	100	4	√	√	√						
2	CS544	Machine Learning Theory & Methods (DC)	Theory		3	1	0	40	20	60	40	100	4	√	√	√						
3	CS549	Machine Learning Tools Lab (DC)	Practical		0	0	2	30	30	60	40	100	1	√	√	√						
4	CS531	Seminar	Practical		0	0	2	40	20	60	40	100	1	√		√						
5		Elective 1	Theory	Electives	3	1	0	40	20	60	40	100	4									
6		Elective 2	Theory		3	1	0	40	20	60	40	100	4									
		Elective 3	Theory		3	1	0	40	20	60	40	100	4									
TOTAL					15	5	4	270	150	420	280	700	22									

Elective-1	CS529	Digital Image Processing and Its Applications [CS Elective]	√		√				
	CS540	Advanced Human Computer Interaction [CS Elective]	√		√				
Elective-2	CS527	Advanced Real Time Systems [CS Elective]			√				
	CS523	Pattern Recognition & its Application [CS Elective]	√	√	√				
Elective-3	EE502	Control Engineering	√		√				
	CS573	Edge AI and Embedded system	√		√				

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Year/Semester: II / III (Odd Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Category	Periods/ Per week			Continuous Assessment			End Semester Examination	Subject Total	Total Credit Points	Attributes								United Nations Sustainable Development
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				(ESE)	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)
1	CS564	Field and Service Robots	Theory	Core	3	1	0	40	20	60	40	100	4	√	√	√					 	
2	CS631	Integration Project Lab (DC)	Practical		0	0	8	40	20	60	40	100	4	√	√	√						
3	CS632	Machine Perception	Theory		3	1	0	40	20	60	40	100	4	√	√	√					 	
4		Departmental Elective-4	Theory	Electives	3	1	0	40	20	60	40	100	4									
5		Departmental Elective-5	Theory		3	1	0	40	20	60	40	100	4									
TOTAL					12	4	8	200	100	300	200	500	20									

Elective-4	CS603	Ad Hoc Sensor Networks (DE-III) [CS Elective]	√	√	√						
	CS607	System Simulation and Modelling [CS Elective]	√		√		√				
	CS634	Deep Learning (DE III) [Not Currently Offered]	√	√	√						
Elective-5	CS626	Internet of Things (DE-4) [CS Elective-IV]			√						
	CS605	Agile Software Engineering (DE)	√		√						
	CS609	Big Data (DE-IV) [CS Core]	√		√						

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Year/Semester: II / IV (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Category	Periods/ Per week			Continuous Assessment			End Semester Examination	Subject Total	Total Credit Points	Attributes								United Nations Sustainable Development
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				(ESE)	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Goals (SDGs)
1	CS699	M.Tech.Dissertation	Theory	Core	0	0	4			60	40	100	4	√	√	√						
2	CS699	M.Tech.Dissertation	Theory		0	0	4			60	40	100	4	√	√	√						
3	CS699	M.Tech.Dissertation	Theory		0	0	4			60	40	100	4	√	√	√						
4	CS699	M.Tech.Dissertation	Theory		0	0	4			60	40	100	4	√	√	√						
TOTAL					0	0	16	0	0	240	160	400	16									

Total Credit for M.Tech Course: 19+22+20+16 = 77

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