## SEMESTER - VI

Course Code	UDS21601J	Course Name	INTELLIGENT AU	TOMATION FOR ENT	ERPRISE		ours		С			Pro	fessi	iona	al Co	ore (	Cour	rse		5	<b>L</b>	<b>T</b>	P 4	<b>C</b>
Pre-re	equisite Courses	Nil		Co-requisite Courses	Nil	1	1	-		Pr	ogre	essiv	e Co	urse	es	Nil								
Course Of	ffering Departme	nt	Computer Applications		Data Book / C	odes	s/Sta	ndar	rds	Nil														
Course Le	earning Rationale	e (CLR):	The purpose of learning	this course is to,		Le	earni	ng	] [		l.		Pro	gran	n Le	earni	ng C	Outco	mes	s (PL	.0)			
CLR-1:	solutions and h	ow differen	ow a traditional automation t they are from the intelliger	nt automation	To the little	1	2	3		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	To get a clear lautomation pro		ing of Business Process au	tomation, the role they pl	ay in an						١													
CLR-3:		J <mark>nderstan</mark> d	ing of Robotic Process auto	mation, the role they pla	y in an		ł	À,			Ė													
CLR-4:	To Inculcate the automation pro		Architecture, Framework, (	Components of an intellig	jent				J.			ciplines		d	lge									
CLR-5:	To have a clear different vertical		ding of intelligent automatic	on real-world applications	across	(Bloom)		nt (%)	4	/ledge	cepts		dge	tion	Knowledge		Jata		Skills	Skills			ior	965000
CLR-6:	To explore the	Best Practi	ses, Policies methodologies es to automate, doing a pilo	the state of the s	ent	Thinking (F	roficiency	Attainment		al Knov	of Conce	elated [	Knowle	ecializa	lize Kr	Modeling	Interpret Da	e Skills	Solving S	2000	Skills		l Behavior	earning
Course Le	earning Outcome	es (CLO):	At the end of this course,	learners will be able to:		Level of Thi	Expected P	Expected A	ine.	Fundamental Knowle	Application of	Link with Related Dis	Procedural Knowledg	Skills in Specialization	Ability to Utilize	Skills in Mo	Analyze, In	Investigative Skills	Problem So	Communication	Analytical S	ICT Skills	Professional	Life Long L
CLO-1:	Differentiate be each of the aut		tional and intelligent autom	ation, have a complete u	nderstanding of	2		80		Н	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н
CLO-2 :	100		dge on the technologies and it holds for the organization		elligent	3	85	80		Н	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н
CLO-3 :	Have Excellent verticals.	exposure t	o intelligent automation rea	I world applications acros	ss industry	3	85	80		Н	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н
CLO-4 :			of Business process autom k.	ation and its working, tec	chnical	3	85	80		Н	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н
CLO-5:	Demonstrated I		of Robotic process automat k.	tion and its working, tech	nical	3	85	80		Н	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н
CLO-6 :	Have a firm cor Change manag	100	ain the be <mark>st practices, right</mark>	business processes to a	utomate,	3	85	80		Н	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н

Note: All our curriculum, study materials, assignments, quizzes, lab works, and learning resources are personalized and dynamically generated using machine learning models based on the learner's learning ability. Users can review our learning curriculum only through our intelligent learning management platform (iLMSP), and our learning resources and lab infrastructures are available only in the digital form on our cloud infrastructures.

Duration (hour)		24	24	24	24	24
S-1	SLO-1	Unit 1: Traditional Automation	Managing Business processes for Digital Transformation	Improving Accuracy and reliability	Components of Intelligent Automation Framework	Rule-based methods
5-1	SLO-2	Traditional Automation Overview	Unit 4: Business Process Automation	Improving Customer Experience	Business Objectives	Rule-based methods
S-2	OVERENT AND THE RESERVE	History of Traditional Automation	Business Process Automation overview	Keeping up with Compliance and Regulations	Business Process Analysis	Repetitive processes
3-2	SLO-2	Principles and theories of Traditional Automation	How does Business Process Automation work?	Intelligent Automation market	Business Process Redesign	Structured Processes
S-3	SLO-1	Business Benefits of Traditional Automation	Business Benefits of Business Process Automation	Intelligent Automation market share	Develop Automated Processes	Doing a Pilot Run
3-3	SLO-2	Business Challenges of Traditional Automation	Intelligent ()		Intelligent Operations	Doing a Pilot Run
S-4	SLO-1	Traditional Automation vs Intelligent Automation			Unit 10: Intelligent Automation Implementation Framework	Team
	SLO-2	Traditional Automation vs Robotic Process Automation	When to use Business Process Automation	What is Intelligent Process Automation's Role in the Future of Automation	Healthcare	Tools
S-5 to S-8	SLO-1 SLO-2	Lab 1:	Lab 4 :	Lab 7:	Lab 10 :	Lab 13:
	SLO-1	Unit 2: Intelligent Automation	Best Practices for Business Process Automation	Building the business cases for intelligent	Personalized Treatment	Adoption of New Technology
S-9	SLO-2	Intelligent Automation Overview	Business Process Automation Tools and technologies.	Unit 7: Intelligent Automation Technologies and Architecture	Medical Imaging	Traditional Delivery Models
S-	SLO-1	Components of Intelligent Automation	Unit 5: Robotic Process Automation	Intelligent Automation Defined Once and for All	Consumer	Change Management
10	SLO-2	Business Benefits of Intelligent Automation	Robotic Process Automation overview	Process Orchestration	On-line Shopping	Evaluate the ROI
S-	SLO-1	Business Challenges of Intelligent Automation	Business Benefits of Robotic Process Automation	Artificial Intelligence and Machine Learning	Warehouse Logistics	
11	SLO-2	Examples of Intelligent Automation	Business Challenges of Robotic Process Automation	Robotic Process Automation	Transaction security	
S-	SLO-1	Future of Intelligent Automation	Why Robotic Process Automation?	Components of Intelligent Automation	Manufacturing	
12	SLO-2	Technologies behind Intelligent Automation	Robotic Process Automation Market	Architecture	Automated Factory Floor	
	SLO-1	Lab 2 :	Lab 5 :	Lab 8:	Lab 11:	Lab 14:

S- 13 to S- 16	SLO-2					
1000	SLO-1	Applications of Intelligent Automation	Robotic Process Automation — Drivers	Strategies and roadmaps	Automated Workflow	
S- 17	SLO-2	Unit 3: Traditional Business Automation vs. Intelligent Industrial Automation	omation vs. Intelligent Robotic Process Automation		Machine Vision	
S- 18	SLO-1	Traditional Business Automation Overview	Robotic Process Automation Strategy	Unit 8: Real World Intelligent Automation Applications - Insurance, Finance, Life Sciences, and Manufacturing	Transportation	
	SLO-2	Traditional Business Management Overview	Robotic Process Automation Implementation	Intelligent Automation in Insurance	Autonomous cars	
)- -	SLO-1	Difference Between Business Automation and Business Management	Robotic Process Automation Implementation Examples	Intelligent Automation in Finance	Route Optimization	
9	SLO-2		Unit 6: Robotic Process Automation	Intelligent Automation in Life Sciences	Supply Planning	
<b>5</b> -	SLO-1	How business automation improves business processes	Intelligent Automation Industry Needs Overview	Intelligent Automation in Manufacturing	Unit 11: Intelligent Automation Best Practices and Adoptions	
0	SLO-2	Digital Transformation for traditional businesses	Reducing Costs and Improving Productivity	Unit 9: Intelligent Automation Implementation Framework	Find the Right Process to Automate	
- 1	SLO-1			11/20		
4	SLO-2	Lab 3:	Lab 6:	Lab 9:	Lab 12:	Lab 15:

Learning
1. Automating Open-Source Intelligence Algorithms for OSINT by Robert Layton, Paul A. Watters
2. Genetic Algorithms and Machine Learning for Programmers Create Al Models and Evolve Solutions -Frances Buontempo

Learning	Assessment									0		
	DI	Final Exa	mination									
		Bloom's CLA – 1 (10%)		CLA - 2	2 (10%)	CLA -	3 (20%)	CLA – 4	(10%) #	(50% weightage)		
	Level of Thinking	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	
Lovol 1	Remember	20%	15%	20%	15%	20%	150/	20%	150/	200/	15%	
Level 1	Understand	20%	1376	20%	13%	20%	15%	20%	15%	20%	15%	

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Level 2	Apply Analyze	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Lovel 2	Evaluate	10%	15%	10%	15%	10%	150/	10%	15%	10%	15%
Level 3	Create	10%	13%	1076	15%	10 %	15%	10%	13%	10 %	15%
	Total	100	%	100	) %	100	) %	100	%	100	) %

# CLA – 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Mr Jothi, Periyasamy, Chief Al Architect DeepSphere Al, CA, USA	Dr.S.Gopinathan, Associate Professor, University of Madras, Chennai	Mr.J. Venkat Subramaniyan, SRMIST
		Dr.S.Sivakumar, SRMIST

