KU1DSCCSC106:AI IN DAILY LIFE

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
1	DSC	100-199	KU1DSCCSC106	4	75

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2		35	65	100	1.5 Hrs

Course Description:

This course aims to introduce the fundamental concepts of artificial intelligence (AI) to individuals from all academic backgrounds. Participants will develop a broad understanding of AI technologies, their implications, and their potential applications in various fields. The course will emphasize practical examples and real-world case studies to facilitate comprehension and inspire innovative thinking.

Prerequisite: NIL

Course Outcomes:

CO No.	Expected Outcome	Learning Domains
1	Define and explain the fundamental concepts and subfields of AI. .	U
2	Identify real-world applications of AI across various industries	U/A
3	Analyze the ethical, social, and economic implications of AI.	U/A
4	Recognize the potential of AI to drive innovation and transformation	A/An

Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	3						2
CO 2	3			2			2
CO 3	3			3			2
CO 4	3			3			3

COURSE CONTENTS

MODULE	UNIT	DESCRIPTION	HOURS
1		**MODULE TITLE**: **Introduction to Artificial Intelligence**	**15**
	1	Definition and scope of AI	
	2	Historical overview and key milestones	
	3	Differentiating AI from human intelligence	

MODULE	UNIT	DESCRIPTION	HOURS
2		**MODULE TITLE: AI Subfields and Technologies**	**15**
	1	Machine learning: Supervised, unsupervised	
	2	Reinforcement learning	
	3	Deep learning and neural networks	
	4	Natural language processing (NLP) and computer vision	

MODULE	UNIT	DESCRIPTION	HOURS
3		**MODULE TITLE : Applications of AI**	**15**
	1	AI in healthcare: Diagnosis, treatment, and medical imaging	
	2	AI in finance: Fraud detection, algorithmic trading, and risk assessment	
	3	AI in transportation: Autonomous vehicles and traffic optimization	
	4	AI in customer service and chatbots	
	5	AI in education: Personalized learning and intelligent tutoring system	

MODULE	UNIT	DESCRIPTION	HOURS
4		**MODULE TITLE :Ethical and Social Implications of AI**	15
	1	Bias and fairness in AI systems	
	2	Impact of AI on employment and the workforce	

	3	AI and social inequality	

	Teacher Specific Module	
5	Practice online classes on various AI Applications with a minimum duration of 3 hours and keep certificates conduct practical examination based on this. 1. Introduction to AI and it's Applications 2. Chat GPT 3. Power BI 4. Data analytics tools 5. Designing tools	15

Essential Readings:

1.Artificial Intelligence: A Modern Approach – Stuart J. Russell & Peter Norvig.

2**.**Artificial Intelligence in Daily Life eBook : Lee, Raymond S. T.

3. *AI in Daily Life: A Practical Guide to Enhancing Your World Kindle Edition* by Michael A. Campanelli

Assessment Rubrics:

Evaluation Type		Marks	Evaluation Type		Marks	Total
Lecture		75	**Practical**		25	
a)	**ESE**	50	a)	**ESE**	15	
				Program code and execution	8	100
				Output	3	
				Viva	2	
				Modification	2	
b)	**CCA**	25	b)	**CCA**	10	

	i	Test Paper	5		i	Punctuality	3
		Model exam	10				
	ii	Assignment/ Book-Article review /field report	5		ii	Model exam	4
	iii	Seminar/ Viva-Voce	5		iii	Record	3

KU1DSCCSC107: ESSENTIALS OF INFORMATION TECHNOLOGY.

Semester	Course Type	Course Level	Course Code	Credits	Total Hours
1	DSC	100-199	KU1DSCCSC107	4	75

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2		35	65	100	1.5hrs.