

LORETO COLLEGE
TIME PLAN
MARCH 2024 –JULY 2024
FOUR YEAR B.SC SEMESTER II (UNDER CCF, 2022)

Teacher: Ms. Chinmoyee Ray

Initials: CR

Subject: ARTI

Course: SEC – 2

Course Title: AI for Everyone

Course Objectives:

- Understand the basics of artificial intelligence and its subfields.
- Explore real-world applications of AI across different industries.
- Gain insights into the ethical, social, and economic implications of AI.
- Develop an appreciation for the potential of AI to drive innovation and transformation.

2nd Semester Topic-wise Time

Unit	Topics	Hours Allotted	Teaching Method	Learning Outcome (Output)	Assessment
Unit 1: Introduction to Artificial Intelligence	Definition and scope of AI	2	Lecture, Discussion	Understanding the basics of AI and its scope	Quiz, Class Discussion
	Historical overview and key milestones	2	Lecture, Case Studies	Knowledge of AI's evolution and key milestones	Short Essay, Timeline Exercise
	Differentiating AI from human intelligence	2	Lecture, Group Activity	Ability to distinguish AI capabilities from human intelligence	Group Presentation, Comparative Analysis
Unit 2: AI Subfields and Technologies	Machine learning: Supervised, unsupervised, and reinforcement learning	3	Lecture, Practical Exercises	Understanding different ML techniques and their applications	Practical Assignment, Quiz
	Deep learning and neural networks	3	Lecture, Hands-on Lab	Knowledge of deep learning architectures and applications	Lab Report, Quiz
	Natural language processing (NLP) and computer vision	3	Lecture, Practical Exercises	Understanding NLP and computer vision concepts and applications	Practical Assignment, Quiz
Unit 3: Applications of AI	AI in healthcare: Diagnosis, treatment, and medical imaging	2	Case Studies, Guest Lecture	Understanding AI applications in healthcare	Case Study Analysis, Quiz
	AI in finance:	2	Case Studies,	Knowledge of AI	Case Study

	Fraud detection, algorithmic trading, and risk assessment		Lecture	applications in finance	Analysis, Quiz
	AI in transportation: Autonomous vehicles and traffic optimization	2	Case Studies, Lecture	Understanding AI applications in transportation	Case Study Analysis, Quiz
	AI in customer service and chatbots	1	Practical Exercises, Lecture	Knowledge of AI applications in customer service	Practical Assignment, Quiz
	AI in education: Personalized learning and intelligent tutoring systems	1	Case Studies, Lecture	Understanding AI's role in education and personalized learning	Case Study Analysis, Quiz
Unit 4: Ethical and Social Implications of AI	Bias and fairness in AI systems	1	Lecture, Discussion	Understanding the ethical concerns related to bias in AI	Essay, Discussion
	Privacy and data protection concerns	1	Lecture, Case Studies	Knowledge of privacy and data protection issues in AI	Case Study Analysis, Quiz
	Impact of AI on employment and the workforce	1	Lecture, Discussion	Understanding the impact of AI on jobs and the workforce	Essay, Discussion
	AI and social inequality	1	Lecture, Discussion	Knowledge of AI's impact on social inequality	Essay, Discussion
Unit 5: Other Important Issues	Ethical guidelines and responsible AI practices	1	Lecture, Case Studies	Understanding ethical practices in AI development	Case Study Analysis, Quiz
	AI and Innovation	1	Lecture, Discussion	Knowledge of how AI drives innovation	Essay, Discussion
	Emerging trends and future directions in AI	1	Lecture, Discussion	Awareness of emerging trends and future directions in AI	Essay, Quiz
	AI and creativity: Generative models and artistic applications	1	Lecture, Practical Exercises	Understanding AI's role in creativity and artistic applications	Practical Assignment, Quiz