

**SES's L.S. RAHEJA COLLEGE OF ARTS AND COMMERCE
(AUTONOMOUS)**



BOARD OF STUDIES: Information Technology and Data Science

Programme: B.Sc. (Artificial Intelligence & Data Science)

Semester: II

Nomenclature of the Course: AI Ethics and Governance

NEP Vertical: Minor

Credit: 02

Total Marks: 50

Academic Year: 2026–27

(As per Choice Based Credit System under NEP 2020)



Unit-wise Detailed Syllabus

Unit	Detailed Contents	Andragogy	Hours
Unit I: Foundations of AI Ethics	1. Introduction to Ethics in Technology 2. Need for AI Ethics 3. Ethical Theories – Utilitarianism, Deontology (Basic Concept) 4. Bias in AI Systems – Types and Causes 5. Fairness, Accountability and Transparency (FAT Principles) 6. Privacy Concerns in AI 7. Data Protection and Consent 8. Case Studies – Algorithmic Bias in Hiring, Facial Recognition	Case-based discussion, Real-world examples, Scenario analysis, Group debates	15
Unit II: AI Governance and Regulatory Frameworks	1. Concept of AI Governance 2. Responsible AI Development 3. Explainability and Interpretability 4. AI Risk Assessment 5. National and International AI Guidelines (Overview) 6. Data Protection Regulations (General Overview) 7. AI in Public Policy and Society 8. Emerging Challenges – Autonomous Systems, Deepfakes, Generative AI	Policy review sessions, Critical thinking exercises, Report analysis, Ethical dilemma discussions	15

Learning Objectives

1. To understand ethical issues associated with AI systems.
2. To analyze bias and fairness concerns in AI applications.
3. To understand regulatory frameworks governing AI technologies.
4. To develop critical thinking for responsible AI deployment.
5. To evaluate societal impact of AI technologies.

Course Outcomes (CO)

CO No.	Course Outcome	Bloom's Level
CO1	Explain ethical principles relevant to AI systems	Understand (L2)
CO2	Analyze bias and fairness issues in AI applications	Analyze (L4)
CO3	Evaluate governance mechanisms for responsible AI	Evaluate (L5)
CO4	Interpret regulatory frameworks and compliance requirements	Understand (L2), Analyze (L4)
CO5	Assess societal impact of emerging AI technologies	Analyze (L4), Evaluate (L5)

Suggested Readings

Sr. No.	Title	Author / Source
1	Ethics of Artificial Intelligence	S. Matthew Liao
2	Artificial Intelligence: A Guide for Thinking Humans	Melanie Mitchell
3	AI Ethics	Mark Coeckelbergh
4	OECD AI Principles	OECD Report
5	UNESCO Recommendation on AI Ethics	UNESCO

QUESTION PAPER PATTERN

(A) FOR CONTINUOUS EVALUATION

Particulars	Marks
Class Test	10
Assignment / Programming Task	10
Total	20

B) FOR SEMESTER END EXAMINATION

Maximum Marks: 30

Duration: 1 Hour

Question No.	Description	Total Marks
Q1	Attempt Unit I	
	A – Remembering	15
	B – Understanding	
	C – Analysing	
OR		
	P – Remembering	15
	Q – Understanding	
	R – Analysing	
Q2	Attempt Unit II	
	A – Understanding	15
	B – Analysing	
	C – Evaluating/Analysing	
OR		
	P – Understanding	15
	Q – Analysing	
	R – Evaluating/Analysing	