

Course Code	Course Name	Credits
26ED012	ETHICAL AND RESPONSIBLE USE OF AI IN EDUCATION	04

Course Objectives

The course aims to,

1. To introduce ethical concepts related to AI in Education
2. To develop awareness of risks such as bias, privacy, and misuse
3. To promote responsible and fair use of AI tools
4. To encourage critical thinking and ethical decision-making
5. To prepare students for future challenges of AI in education

Learning Outcomes

After the completion of the course, the Learner will be able to,

- ❖ Explain key ethical issues related to AI in education
- ❖ Demonstrate responsible use of AI tools in academic tasks
- ❖ Examine ethical challenges such as bias, privacy, and misuse
- ❖ Critically assess the impact of AI on teaching and learning
- ❖ Design guidelines for ethical AI use in educational settings

Unit 1 – Introduction to AI and Ethics (12 hours)

Concept of AI – Applications and Basics of AI in Education - Meaning of Ethics in technology - Importance of ethical AI in Education

Unit 2 – Ethical Issues in AI (09 hours)

Bias and fairness in AI system - Privacy and data protection - Academic integrity; (Cheating, Plagiarism) - Accountability and Transparency in AI use.

Unit 3 – Responsible use of AI Tools (12 hours)

Guidelines for responsible AI use - Using AI for assignment and research - Identifying misuse and over-reliance on AI - Evaluating Accuracy and Reliability of AI outputs.

Unit 4 – AI in Teaching and Learning (12 hours)

Role of AI in personalized learning - Advantages of AI in education - Disadvantages and challenges of AI - Teacher's role in an AI-supported environment.

Unit 5 – Future and good AI practices (12 hours)

Simple rules for using AI safely - Practicing responsible digital citizenship - Basic understanding of future trends of AI in Education.

References:

1. Holmes, W., Bialik, M., & Fadel, C. – Artificial Intelligence in Education
2. Luckin, R. – Machine Learning and Human Intelligence
3. Russell, S., & Norvig, P. – Artificial Intelligence: A Modern Approach
4. UNESCO – AI and Education: Guidance for Policy-makers

Alignment with NEP – 2020

The course **Ethical and Responsible use of AI in Education (26ED012)** is designed in alignment with the transformative vision of the National Education Policy 2020, which emphasizes holistic, multidisciplinary, skill-based, and research-driven education.

1. Promotes ethical values and responsible citizenship (AI ethics, fairness, privacy)
2. Builds 21st-century skills (critical thinking, decision-making)
3. Integrates technology in education (AI tools, personalized learning)
4. Follows outcome-based learning (clear, skill-focused outcomes)
5. Encourages future readiness and digital citizenship

COs and Bloom's Taxonomy Level (BTL) Mapping for 26ED012

Course Outcomes	On successful completion of the course, the students will be able to	BTL
CO1	Outline the fundamental concepts of Artificial Intelligence and its role in education.	K1 & K 2
CO2	Discuss major ethical concerns such as data privacy, bias, fairness, and transparency in AI systems	K 3
CO3	Demonstrate ethical and responsible use of AI tools in academic work while upholding academic integrity.	K 4
CO4	Examine the role of AI in teaching and learning practices	K 5
CO5	Develop practical guidelines or strategies for promoting ethical and responsible use of AI in educational settings.	K 6

Bloom's Taxonomy Level (BTL):- K1 and K2 – remembering and understanding, K3 - Applying, K4 – Analyse, K5 - Evaluate and K6- Create

Relationship Matrix

Course Outcomes	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)							Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	
CO1	3	2	1	2	2	1	3	2	2	2	3	2	3	2	3	2.2
CO2	3	2	2	2	1	1	3	1	2	2	2	3	2	2	2	2.0
CO3	2	2	2	1	3	2	2	1	2	2	3	2	2	3	3	2.1
CO4	3	3	2	2	3	2	3	3	3	3	3	2	3	3	3	2.7
CO5	2	3	2	3	2	3	3	1	2	1	2	3	2	3	3	2.3
Total																2.3

Mean Score: 3- High, 2- Medium/Moderate, 1-Low