

Course Code	Course Name	Credits
26ED002	FOUNDATIONS OF ARTIFICIAL INTELLIGENCE IN EDUCATION	04

Course Objectives

The course aims to,

- ✓ Introduce the fundamental concepts and terminology of AI
- ✓ Familiarize learners with the application of AI in educational contexts
- ✓ Develop basic skills in the use of AI
- ✓ Encourages multidisciplinary learning by integrating AI with education.
- ✓ Examine the impact of AI on teaching-learning processes

Learning Outcomes

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

- ❖ Deepen their understanding and describe key concepts and types of AI
- ❖ Identify and explain the use of AI applications in education
- ❖ Apply basic AI tools and techniques to solve simple educational and academic tasks effectively.
- ❖ Analyze and evaluate the benefits, challenges, and implications of AI integration in real-life educational settings.
- ❖ Demonstrate awareness of ethical and responsible AI use
- ❖ Prepare themselves for future workforce and emerging technologies

Unit 1 – Introduction to Artificial Intelligence (12 hours)

Meaning, Definition, and Scope of AI - History and Evolution of AI - Types of AI: Narrow AI; Concept, Features, benefits, limitations, General AI; Concept, Features, benefits, limitations, Super AI; Concept, Features, benefits, limitations

Unit 2 – AI in Education (12 hours)

Role and significance of AI in education - Application of AI in Education - Personalized and Adaptive Learning systems; Concept, features, advantages, limitations.

Unit 3 – AI Tools (12 hours)

Introduction to simple AI Tools - Use of AI for Academic writing - Use of AI for content generation - Evaluating and selecting appropriate AI tools

Unit 4 – Impact of AI (12 hours)

AI and the changing role of teachers - Benefits of AI in education - Challenges and limitations of AI - Impact of AI on student learning and skills

Unit 5 – Ethics and Future of AI (12 hours)

Ethical and responsible use of AI in Education; (Cheating, Plagiarism) - Privacy and Data safety of AI - Future Trends of AI in Education - Accountability and digital responsibility in AI use.

Reference readings:

1. Russell, S. & Norvig, P. – Artificial Intelligence: A modern approach
2. Holmes, W., Bialik, M., & Fadel, C – Artificial Intelligence in education
3. UNESCO Reports on AI in education
4. Government of India – NEP 2020 document

Alignment with NEP – 2020

The course **Foundations of Artificial Intelligence in Education (26ED002)** is designed in alignment with the transformative vision of the National Education Policy 2020.

1. Promotes digital literacy through AI concepts and tools aligned with NEP 2020.
2. Develops skill-based learning using AI for writing and content creation.
3. Analysis builds higher-order thinking on AI applications and challenges.
4. Develops a multidisciplinary approach by integrating technology in education.
5. Strengthens ethical AI use covering plagiarism, privacy, and data safety.
6. Strengthens future readiness by focusing on AI trends and job markets.

COs and Bloom's Taxonomy Level (BTL) Mapping for 26ED002

Course Outcomes	On successful completion of the course, the students will be able to	BTL
CO1	Enhances digital and technological competencies through AI concepts and tools.	K1 & K 2
CO2	Promotes skill-based and experiential learning via practical use of AI applications.	K 3
CO3	Develops critical thinking and problem-solving skills	K 4
CO4	Encourages multidisciplinary learning by integrating AI with education	K 5
CO5	Prepares learners for future workforce and emerging technologies.	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	2	3	3	2	1	3	3	2	2	3	1	3	3	3	2	2.4
CO2	2	3	2	1	3	2	3	2	2	3	2	3	2	2	3	2.3
CO3	1	3	3	3	2	2	3	1	3	3	3	3	1	2	3	2.4
CO4	2	2	2	2	2	3	3	1	2	2	3	1	3	2	3	2.2
CO5	1	3	3	2	1	3	2	3	2	2	2	3	2	3	3	2.3
Total																2.3

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

