

Course Code	Course Name	Credits
26HS504	HISTORY OF ARTIFICIAL INTELLIGENCE	04

Course Objectives

- To introduce Artificial Intelligence (AI), its meaning, scope, and historical development from myths to modern technologies.
- To study the growth of AI as a field, including key milestones, AI winters, and its resurgence.
- To examine ethical considerations, advantages, limitations, and the role of humans in AI decision-making.
- To explore AI in India, including government initiatives, industry adoption, research centers, and academic programs, and its global and national impact.

Learning Outcomes

Upon successful completion of this course it is intended that a student will be able to:

- Recall the meaning, scope, history, and key personalities of Artificial Intelligence.
- Explain the development of AI, AI winters, resurgence, and ethical considerations.
- Illustrate how AI concepts are used in real-world scenarios and national or global initiative
- Compare AI advantages, disadvantages, biases, and societal impacts.
- Critically assess AI tools, policies, and programs for ethical and social implications.
- Propose conceptual strategies for responsible and ethical AI adoption in society or organizations.

Unit 1- Introduction (12 Hrs)

Artificial intelligence: meaning and scope; historical overview; artificial intelligence in the past-mythological imagination; myths vs reality

Unit 2- Artificial Intelligence as a field (12 Hrs)

Dartmouth Conference (1956); personalities in AI: John McCarthy, Marvin Minsky, Nathaniel Rochester, Claude Shannon; factors leading to AI growth (1960s–1970s).

Unit 3- AI Winters and Resurgence of AI (12 Hrs)

First AI Winter (1974–1980); Second AI Winter (1987–1993); resurgence of AI post-AI winters (1990s–present); causes; conferences and milestones—IJCAI (1969), AAAI (1980), NeurIPS (1987), ICML (1987), CVPR (1983).

Unit 4-AI and Ethical concerns (12 Hrs).

AI in daily life; ethics and bias in AI- limitations, cultural bias, misuse, data ethics, role of humans in decision-making; advantages and disadvantages of AI.

Unit 5-Government Initiatives for AI in India (12 Hrs)

NITI Aayog's National Strategy for AI; AI for All / AI4India programs; Digital India and Smart City initiatives; AI startups and industry adoption; research centers and labs; academic programs.

References:

1. Bostrom, N. (2014). *Superintelligence: Paths, dangers, strategies*. Oxford University Press.
2. Daugherty, P. R., & Wilson, H. J. (2018). *Human + machine: Reimagining work in the age of AI*. Harvard Business Review Press.
3. Floridi, L. (2023). *The ethics of artificial intelligence*. Oxford University Press India.
4. Kolla, J. N., & D'Monte, L. (2020). *AI rising: India's artificial intelligence growth story*. HarperCollins India.
5. Mitchell, M. (2019). *Artificial intelligence: A guide for thinking humans*. Farrar, Straus and Giroux.
6. Mukherjee, A., Kulshrestha, J., Chakraborty, A., & Kumar, S. (Eds.). (2023). *Ethics in artificial intelligence: Bias, fairness and beyond* (Vol. 1123). Springer Nature.
7. Nilsson, N. J. (2010). *The quest for artificial intelligence: A history of ideas and achievements*. Cambridge University Press.
8. Raj, G., Unhelkar, B., & Choudhary, A. (Eds.). (2025). *Advances in artificial intelligence and machine learning: Select proceedings of ICAAAIML 2023*. Springer.
9. Russell, S., & Norvig, P. (2021). *Artificial intelligence: A modern approach* (4th ed.). Pearson.
10. Tegmark, M. (2017). *Life 3.0: Being human in the age of artificial intelligence*. Knopf.
11. Tripathi, A. K., Saha, A. K., & Shrivastava, V. (Eds.). (2026). *Proceedings of the world conference on artificial intelligence: Advances and applications*. Springer.
12. Winston, P. H. (1992). *Artificial intelligence*. Addison-Wesley.
13. Wooldridge, M. (2020). *A brief history of artificial intelligence*. Flatiron Books

COs and Bloom's Taxonomy Level (BTL) Mapping- 26HS504

Course Outcomes	On successful completion of this course, students will be able to	BTL
CO1	Recall facts and explain the meaning, scope, and history of Artificial Intelligence (AI).	K1, K2
CO2	Use the basic understanding of AI to identify and explain key personalities in the field.	K3
CO3	Draw a connection, differentiate and compare the emergence of AI through various global initiatives.	K4
CO4	Justify ethical concerns related to AI, including its advantages, disadvantages, biases, and societal impacts.	K5
CO5	Create or construct strategies and ideas for the responsible and ethical adoption of Artificial Intelligence in society and organizations through national initiatives.	K6

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

Relationship Matrix- 26HS504													
Course Outcomes	Programme Outcomes (POs)						Programme Specific Outcomes (PSOs)						Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
CO1	3	2	3	1	2	2	1	3	3	2	1	3	2.1
CO2	3	2	2	2	2	2	1	2	3	1	1	2	1.9
CO3	3	3	2	2	2	1	1	3	2	1	1	1	1.8
CO4	3	3	2	3	1	1	2	1	1	2	1	1	1.7
CO5	3	2	2	3	2	3	1	2	2	1	1	1	1.9
Total													1.9

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

