



An Add-On Course on Artificial Intelligence

by Computer Science Department, St. Xavier's College, Ranchi.

Artificial Intelligence Literacy (AIL)

Semester I

Duration 40 Hours (30 Theory + 10 Practical)

Eligibility Open to all Undergraduate Semester I students of Arts, Science, Commerce, Management, Vocational, and Professional Programmes.

Level Foundation Level (No Prior Technical Knowledge Required)

Fee 2500/-

Course Rationale

Artificial Intelligence is transforming education, business, healthcare, governance, communication, and everyday life. As students enter higher education, they require a foundational understanding of AI technologies, their applications, opportunities, and challenges. This course equips students with essential AI literacy so they can use AI tools responsibly, enhance academic performance, improve productivity, and prepare for an increasingly AI-driven world.

Course Objectives

Understand the fundamental concepts of Artificial Intelligence and Digital Intelligence.

Identify AI applications in everyday life and across disciplines.

Develop critical thinking skills for evaluating AI-generated information.

Effectively use Generative AI tools for learning and productivity.

Develop basic prompt-writing skills for interacting with AI systems.

Critically evaluate AI-generated content.

Understand ethical, legal, and societal implications of AI.

Prepare for future academic and professional environments shaped by AI technologies.

Course Outcomes (COs)

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| CO1 | Explain the <u>basic concepts</u> , evolution, and significance of Artificial Intelligence. |
| CO2 | Utilize <u>AI-powered tools</u> to support learning, communication, and productivity. |
| CO3 | Apply <u>critical thinking skills</u> to assess the reliability and usefulness of AI-generated outputs. |
| CO4 | Apply effective <u>prompting techniques</u> to obtain relevant and useful AI-generated responses. |
| CO5 | Recognize <u>AI applications</u> across various academic disciplines and professional domains. |
| CO6 | Evaluate <u>opportunities, risks, and ethical considerations</u> associated with AI technologies. |
| CO7 | Demonstrate responsible and informed use of <u>AI in academic and personal contexts</u> . |

Unit I: Understanding Artificial Intelligence and the Digital Age (6 Hours)

- The Digital Revolution and Emerging Technologies
- What is Artificial Intelligence?
- Evolution of AI: Past, Present, and Future

- Types of AI: Narrow AI, General AI (Concept), and Superintelligence (Concept)
- AI versus Human Intelligence
- AI in Everyday Life
- Introduction to Digital Intelligence

Learning Outcome:

Students understand the role of AI in modern society and the digital transformation underway across sectors.

Unit II: Thinking in the Age of AI (4 Hours)

- Information, Knowledge, and Wisdom
- Human Intelligence and Machine Intelligence
- Verifying AI-Generated Information
- Identifying Misinformation and Fabricated Content
- When to Trust and When to Question AI

Practical: Fact-checking AI-generated responses, comparing AI outputs with authentic sources; case studies on AI errors and misinformation.

Learning Outcome

Students develop critical thinking skills and learn to use AI as a tool while maintaining independent judgment.

Unit III: Exploring Generative AI Tools (6 Hours)

- Introduction to Generative AI
- Text, Image, Audio, and Video Generation
- Large Language Models (Conceptual Overview)
- Popular AI Platforms: ChatGPT, Gemini, Microsoft Copilot
- Opportunities and Limitations of Generative AI
- Understanding AI Hallucinations

Practical Exposure: Hands-on interaction with Generative AI tools.

Learning Outcome

Students gain familiarity with widely used AI applications and their capabilities.

Unit IV: Prompt Engineering and Effective AI Communication (8 Hours)

- What is a Prompt?
- Principles of Effective Prompt Design
- Types of Prompts: Foundational Prompting (basic prompts, role prompting) and Advanced Prompting (context prompting, iterative prompting)

Practical: Creating prompts for learning; writing prompts for summaries and reports; designing prompts for creative and analytical tasks.

Learning Outcome

Students develop the ability to communicate effectively with AI systems.

Unit V: AI for Learning, Productivity, and Communication (6 Hours)

- AI-Assisted Learning
- AI for Note Making and Summarization
- AI for Presentations and Reports
- AI for Language Improvement and Communication
- AI for Time Management and Personal Productivity

Practical: Preparing study notes using AI; creating presentation outlines; drafting professional emails and reports.

Learning Outcome

Students learn to use AI as an academic and professional assistant.

Unit VI: AI Across Disciplines and Society (6 Hours)

- AI in Arts and Humanities: Content Creation, Language Translation, Digital Storytelling
- AI in Commerce and Management: Marketing, Customer Analytics, Business Intelligence
- AI in Science and Healthcare: Scientific Research, Healthcare Applications, Environmental Monitoring
- AI in Vocational and Professional Fields: Tourism, Retail, Hospitality
- AI in Governance and Public Services: Smart Cities, Digital Governance

Learning Outcome

Students appreciate the interdisciplinary nature of AI and its relevance to their own field of study.

Unit VII: Ethics, Safety, and the Future of AI (4 Hours)

- Responsible AI
- Bias and Fairness
- Privacy and Data Protection
- Copyright and Intellectual Property

Learning Outcome

Students develop awareness of ethical, legal, and societal issues associated with AI.

Practical Component (10 Hours)

<u>Exercise</u>	<u>Activity</u>
Exercise 1	Creating effective prompts for different purposes.
Exercise 2	Generating academic summaries using AI tools.
Exercise 3	Preparing a presentation with AI assistance.
Exercise 4	Comparing outputs from different AI platforms.
Exercise 5	Fact-checking and evaluating AI-generated responses.

Mini Project

"AI in My Discipline"

Students prepare a short report and presentation demonstrating how AI can be applied in their chosen field of study.

- AI in Economics
- AI in Literature
- AI in Commerce
- AI in Chemistry
- AI in Journalism
- AI in Tourism
- AI in Social Work
- AI in Education

Suggested Assessment Scheme

- Demonstrations
- Hands-on Practice Sessions
- Case Studies
- Group Discussions
- Problem-Based Learning
- Project-Based Learning

Expected Graduate Attribute

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| • AI-Aware | Understanding what AI is and how it works. |
| • AI-Literate | Able to effectively use contemporary AI tools. |
| • AI-Critical | Capable of evaluating AI-generated information independently. |
| • AI-Responsible | Aware of ethical, legal, and societal implications. |
| • AI-Ready | Prepared to learn, work, and innovate in an AI-enabled future. |

Total Hours Distribution

- Unit I 6 Hours
- Unit II 4 Hours
- Unit III 6 Hours
- Unit IV 8 Hours
- Unit V 6 Hours
- Unit VI 6 Hours
- Unit VII 4 Hours

Total Teaching Hours(T+P):-40 Hours



Course Coordinator



Head of the Department



Registrar