

Semester	2
Course	Multidisciplinary Course for the Humanities Students
Paper Number	MIDS250211P
Paper Title	Gen AI and Data Stories
No. of Credits	3
Theory/Composite	Practical
No. of periods Assigned	3
Module	Single
Syllabus	Introduction to AI Concepts [3L] Importance of data in the context of humanities. Basics of Artificial Intelligence and Applications. Generative AI Fundamentals - Large Language Models: Overview and key features, Capabilities and limitations of current GenAI systems, Overview of text, image, audio, and video generation tools. Prompt Engineering Techniques [13L] Understanding prompts, Prompt Design Strategies (Zero-shot prompting, One-shot prompting, Few-shot prompting, Instruction-based prompting, Question-answer formatting, Role-based prompting, Persona-driven prompting), Reasoning and Thought Process Prompts, Content generation transformation techniques- content rewriting, Tone control, style adaptation, structured output, Multimodal prompts (text-to-image, text-to-audio/video, image-to-caption). Data Storytelling and Visualization [20L] Structured vs. unstructured data, Basics of descriptive statistics for storytelling. Importing and transforming data, Cleaning and shaping data, Creating basic visualizations using filters, slicers, and dashboards, Design principles for dashboards, Data-driven narratives. Capstone Mini-Project: Combine AI-generated text and a Power BI dashboard to present insights from datasets. Ethics, Bias & Responsible AI [3L] AI Ethics Foundations: Ethical frameworks for AI usage, AI in humanities: opportunities and risks. Bias and Limitations of AI: Sources of bias, misinformation, hallucinations, Plagiarism and academic integrity. Responsible Use and Policy: Privacy, copyright, and intellectual property issues, Case studies

Learning outcomes	By the end of the course, students will be able to: 1. Apply prompt engineering strategies to generate and refine AI-driven content in text, image, audio, and video formats. 2. Analyze data to create clear, insightful visualizations and dashboards using Power BI and Excel. 3. Understand ethical issues, bias, and limitations of AI through real-world case studies presented by the industry experts. 4. Integrate AI-generated content and data visualizations in a capstone mini-project to present data-driven insights effectively.
Reading Reference List	1. Rehmani, Altaf. (n.d.): <i>Generative AI for Everyone: Understanding the Essentials and Applications of this Breakthrough Technology</i>. 2. Choudhury, Ridip Dev and Pathak, Nabankur. (n.d.): <i>Generative AI for Everyday Life</i>. SWAYAM Course. 3. Dale, R. (2023). <i>Generative AI: What Everyone Needs to Know</i>. Oxford University Press. 4. Schwabish, Jonathan. (n.d.): <i>Data Visualization in Excel: A Guide for Beginners, Intermediates, and Wonks</i>. AK Peters Visualization Series.
Evaluation	Through Continuous Internal Assessments