Course Code: INT426 Course Title: Generative Artificial Intelligence LTP: 2 0 2

Credits: 3

Course Weightage: ATT: 5 CA: 25 MTT: 20 ETT: 50

Exam Category: 11 (Mid Term Exam: MCQ – End Term Exam: MCQ)

Course Focus: EMPLOYBILITY
Text Book: Not Applicable
Reference Book: Not Applicable

Software/Equipments/Databases: Python

Course Link: https://www.coursera.org/programs/int426-generative-ai-8n6df

Course Outcomes: Through this course students should be able to

CO1:: Understand the foundations and principles behind generative models.

CO2 :: Gain practical experience in crafting and refining prompts for language models through hands-on exercises and projects.

CO3 :: Apply prompt engineering skills to real-world scenarios, such as information retrieval, question-answering, or text generation.

CO4:: Explore different architectures used in large language models, such as transformers, and understand their advantages and limitations.

CO5 :: Complete hands-on projects that involve coding and implementing generative models to solve specific problems or generate creative outputs.

CO6 :: Apply the learned skills and techniques through hands-on projects that involve a combination of ChatGPT, data analysis, visualization, and presentation creation.

LTP week distribution: (LTP Weeks)		
Weeks before MTE	7	
Weeks After MTE	7	

Detailed Weekly Plan

Week	Tentative Duration	Broad Topic	Module	Coursera Link
	Duration			
Week	10/01/24-	Introduction	Introduction to	https://www.coursera.org/programs/int426-
1	16/01/24	to	Generative AI	generative-ai-8n6df/learn/introduction-to-
		Generative		generative-ai
		Al		
		Introduction	Generative AI for	https://coursera.org/programs/int426-
		to	everyone	generative-ai-8n6df/learn/generative-ai-for-
		Generative		everyone
		AI		

Week 2	17/01/24- 23/01/24	Introduction to Generative AI	GenAl for Everyone	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/genai-for-everyone		
Week 3	24/01/24- 30/01/24	Prompt Engineering	Generative Al Primer	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/generative-ai		
		Prompt Engineering	Introduction to Large Language Models	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/introduction-to- large-language-models		
		Prompt Engineering	Prompt Engineering for ChatGPT: Module 1	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/prompt- engineering		
			Test-Code Based 1			
Week 4	31/01/24- 06/02/24	Prompt Engineering	Prompt Engineering for ChatGPT: Module 2	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/prompt- engineering		
		Prompt Engineering	Prompt Engineering for ChatGPT: Module 3	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/prompt- engineering		
Week 5	07/02/24- 13/02/24	Prompt Pattern II	Prompt Engineering for ChatGPT: Module 4	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/prompt- engineering		
		Prompt Pattern II	Prompt Engineering for ChatGPT: Module 5	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/prompt- engineering		
Week 6	14/02/24- 20/02/24	Prompt Pattern III	Prompt Engineering for ChatGPT: Module 6	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/prompt- engineering		
	Test-Code Based 2			st-Code Based 2		
Week 7	21/02/24- 27/02/24	Spill Over				
MTE						
Week 8	14/03/2024- 20/03/2024	Large Language Models	Generative AI with Large Language Models: Module 1	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/generative-ai-with-llms		
		Large Language Models	Generative AI with Large Language	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/generative-ai-with- Ilms		

			Models: Module	
Week 9	21/03/2024- 27/03/2024	Large Language Models	Generative AI with Large Language Models: Module 3	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/generative-ai-with-llms
Week 10	28/03/2024- 03/04/2024	Code with Al	Learn to code with Al	https://www.coursera.org/programs/int426- generative-ai-8n6df/learn/learn-to-code- with-ai
		Code with Al	ChatGPT for Beginners: Save time with Microsoft Excel	https://www.coursera.org/programs/int426- generative-ai-8n6df/projects/chatgpt-for- beginners-save-time-with-microsoft-excel
				Test – Code Based 3
Week 11	04/04/2024- 10/04/2024	Code with AI	ChatGPT Playground for Beginners: Intro to NLP AI	https://www.coursera.org/programs/int426- generative-ai-8n6df/projects/rudi-hinds- chatgpt-playground-for-beginners-intro-to- nlp-ai
		Code with Al	Build AI Apps with ChatGPT, Dall-E, and GPT-4	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/build-ai-apps-with-chatgpt-dalle-gpt4
Week 12	11/04/2024- 17/04/2024	ChatGPT Advanced Data Analysis	ChatGPT Advanced Data Analysis:Module 1	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/chatgpt-advanced-data-analysis
		ChatGPT Advanced Data Analysis	ChatGPT Advanced Data Analysis:Module 2	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/chatgpt-advanced-data-analysis
Week 13	18/04/2024- 24/04/2024	ChatGPT Advanced Data Analysis	ChatGPT Advanced Data Analysis:Module 3	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/chatgpt-advanced-data-analysis
		ChatGPT Advanced Data Analysis	ChatGPT Advanced Data Analysis:Module 4	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/chatgpt-advanced-data-analysis
		ChatGPT Advanced Data Analysis	ChatGPT Advanced Data Analysis:Module 5	https://www.coursera.org/programs/int426-generative-ai-8n6df/learn/chatgpt-advanced-data-analysis
			Test – Code Based 4	
Week 14	25/04/2024- 01/05/2024			Spill Over

It is mandatory to complete the number of courses for being eligible for End Term Examination along with the attendance criteria of the university. The links of the courses as shared in the IP should be completed on/before the last teaching day as per the academic calendar of the university.

Scheme for CA:

CA Category of this Course Code is: A0304 (Total 4 tasks, 3 best out of 4 to be considered)

Component	Is Compulsory	Weightage	Description
Test (Code Based)	No	33.33	Test 1 will be from unit 1 and unit 2. Test will consist of multiple-choice questions of 30 marks. Test will be conducted in offline mode.
Test (Code Based)	No	33.33	Test 2 will be from unit 2 and unit 3. Test will consist of multiple-choice questions of 30 marks. Test will be conducted in offline mode.
Test (Code Based)	No	33.33	Test 3 will be from unit 4 and unit 5. Test will consist of multiple-choice questions of 30 marks. Test will be conducted in offline mode.
Test (Code Based)	No	33.33	Test 4 will be from unit 4, unit 5 and unit 6. Test will consist of multiple-choice questions of 30 marks. Test will be conducted in offline mode.