



UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A ++' GRADE' UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

Email: academicsectionju14@gmail.com

NOTIFICATION **(25/March/Adp./89)**

In partial modification of this office Notification No. F.Acd/II/24/2205-2215 dated 09.05.2024, it is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the amended Syllabus and Courses of Study for **Four Year Under Graduate Programme (Design Your Degree)** Course Code: UFDDPC-201 titled- Problem Solving through Generative AI Instead of Coding through GPT-4 for **Semester-II** (as given in the annexure) for the examinations to be held in the years as per the details given below:

Subject	Semester	For the examinations to be held in the year
FYUGP (Design Your Degree)	Semester- II	May 2024, 2025 and 2026

The Syllabi of the courses are also available on the University website: www.jammuuniversity.in

No. F.Acd/II/25/19031-19040
Dated: 17-3-2025

Anjan Bhasin
DEAN ACADEMIC AFFAIRS

19/3/25 *13/3/25*

Copy to:

1. Director/Convener, Board of Studies in Design Your Degree
2. All members of the Board of Studies.
3. C.A. to the Controller of Examinations
4. Director, Computer Centre, University of Jammu
5. Deputy Registrar/Asst. Registrar (Conf. /Exams. UG)
6. In-charge University Website for necessary action please

University of Jammu
Four Year Innovative Undergraduate
Program
(Design Your Degree)

Semester: 2nd
(For the Session 2024, 2025, 2026)

Course Code: UFDDPC-201

Credits: 04

Contact Hours: 15 per credit

**Course Title: Problem Solving
through Generative AI**

Maximum Marks: 100

Internal Evaluation: 30

External Evaluation: 70

Course Objectives

1. To introduce students to coding using GPT-4, a state-of-the-art language model.
2. To familiarize students with the principles and techniques of natural language processing and machine learning.
3. To provide hands-on experience in developing applications using GPT-4 and related tools.
4. To enable students to understand the ethical considerations and limitations of AI-powered coding.

Introduction to GPT-4 in Coding

Overview of GPT-4, its capabilities, and applications in coding, Prompt Engineering, Art of interacting with Generative AI models.

Activity:

- a. Conduct a virtual workshop or presentation on GPT-4 using ChatGPT to simulate a live session.
- b. Organize a coding competition where participants use ChatGPT to solve coding challenges.
- c. Host a panel discussion with AI experts, employing ChatGPT for Q&A sessions and discussions.

Resources:

Use ChatGPT to generate summary scripts for relevant YouTube resources on GPT-4 features and applications.

Practical Applications of ChatGPT

Exploring diverse applications - Excel, content writing, image generation, etc.

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Activity:

- a. **Excel Automation Workshop:** Use ChatGPT to guide participants in automating Excel tasks, such as data analysis, formula generation, and report creation.
- b. **Content Writing Script:** Engage participants in a content writing script activity where they utilize ChatGPT to generate creative content, blog posts, or articles.
- c. **Image Generation Experiment:** Explore image generation using ChatGPT. Participants can experiment with generating images or creative designs through textual prompts.

Resources:

Utilize ChatGPT to generate step-by-step guides and scripts for Excel automation, content writing, and image generation.

GPT-4 Architecture

Understanding the architecture and working of GPT-4.

Activity:

- a. Conduct a technical presentation on GPT-4's architecture using ChatGPT to generate slides and visuals.
- b. Organize a group project with ChatGPT-generated code snippets to implement a simplified version of GPT-4 architecture.
- c. Facilitate a discussion on the limitations of GPT-4's architecture, using ChatGPT to explore potential improvements.

Resources:

Employ ChatGPT to create summary notes for technical videos explaining GPT-4 architecture.

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Creative Content Generation

Generating diverse content types using ChatGPT - scripts, essays, letters, etc.

Activity:

- **Script Writing Challenge:** Participants use ChatGPT to write scripts for various scenarios, such as a dialogue between fictional characters or a short film script.
- **Essay Writing Session:** Engage in an essay writing session where participants utilize ChatGPT for generating content on specific topics.
- **Letter Writing Exercise:** Participants use ChatGPT to craft formal and informal letters for different purposes.

Resources:

Utilize ChatGPT to generate sample scripts, essay prompts, and letter templates for participants.

AI Ethics, Integration, and Future Trends

Leveraging GPT-4 for intelligent code completion and error correction.

Activity:

- a. Conduct a demonstration session using ChatGPT to showcase GPT-4 in code completion and auto correction.
- b. Organize a coding challenge where participants use ChatGPT to complete and correct code snippets.
- c. Facilitate a discussion on the implications of relying on intelligent code completion and autocorrect tools, using ChatGPT to generate discussion points.

Resources:

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Navin Sharma

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Utilize ChatGPT to generate summaries for videos on AI Code Completion with GPT-4.

Mode of Evaluation:

The assessment structure for this program consists of two components: internal assessment and external assessment. The internal assessment, shall account for 30% of the overall grade, on the basis of continuous performance monitoring through tests/ quizzes/ presentations/ class participation/ small live projects emphasizing on development of skills in application, effective communication, and teamwork.

The remaining 70% of the grade shall be assessed through a transdisciplinary major project, which will span an entire semester.

The evaluation of the major project would be comprehensive, considering various factors including the depth and accuracy of the project's content, the applied methodology, research rigor, the effective use of IT tools and data analysis, as well as the meaningful findings and practical implications derived from the project. The assessment shall also include testing innovativeness, communication and problem solving.

Alie Sharma

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