

**REQUISITION LETTER**

From  
Head of the Department,  
Master of Computer Applications,  
JKK Munirajah College of Technology,  
T.N.Palayam.

To  
The Principal,  
JKK Munirajah College of Technology,  
T.N.Palayam.

Respected Sir,


Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for I, II year Master of Computer Applications students on “**Generative AI and Prompt Engineering**” from **02.10.2023 to 07.10.2023** by Program Coordinator **Mr.I.MANIKANDAN** AP/MCA. So, I request you to kindly provide permission to conduct the certificate program.

Thanking You,



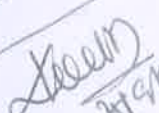
Yours Truly,

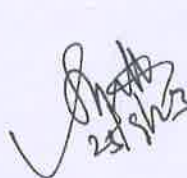
  
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Place: T.N. Palayam

Date: 25/09/2023

Permitted  
  
25/9/23

  
25/9/23  
Sir kindly permit



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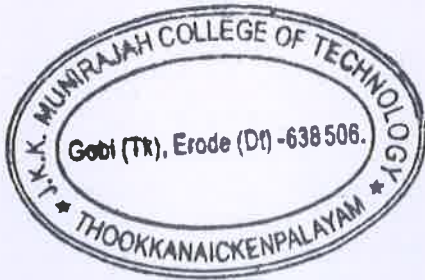


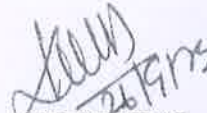
JKKMCT/CIRCULAR/SEP-2023

26/09/2023


**CIRCULAR**

The Department of Computer Applications is planning to organize a Certificate Program on "Generative AI and Prompt Engineering" (36 Hours) for the benefit of the students from **02.10.2023 (Monday) to 07.10.2023 (Friday)**. Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before **28.09.2023**.



  
26/9/23  
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Copy To,  
All the HODs and Staff Members,  
All the Students,  
Notice Board, File

  
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## DEPARTMENT OF COMPUTER APPLICATIONS PROGRAM SYLLABUS

Name of the Certificate Program : Generative AI & Prompt Engineering  
Program Code : 23MCAGAIPECP01  
Name of the Program Coordinator : Mr.I.MANIKANDAN AP/MCA

Academic Year:2023-2024

Program Contents

Total Hours: 36

### Chapter 1: Generative AI Models


- Introduction to Generative AI Models
- Generative Adversarial Networks (GANs)
- Variational Autoencoders (VAEs)
- Advanced Generative Models
- Transformer Models (e.g., GPT, BERT, T5)
- Diffusion Models (e.g., DALL·E, Stable Diffusion, MidJourney)
- Fine-tuning and Transfer Learning in Generative AI
- Hands-on (Advanced Model Exploration)


### Chapter 2: Advanced Prompt Engineering Techniques

- Contextual Framing
- Temperature Control and Sampling Parameters
- Chain-of-Thought Prompting
- Multi-modal Prompt Engineering
- Few-shot and zero-shot scenarios with GPT-4/ChatGPT

### Chapter 3: Generative AI for Business and Creativity

- Introduction to Generative AI in Business and Creativity
- AI-Powered Content Creation for Marketing and Advertising
- AI in Product Design and Development
- Creative Industries: AI for Writing, Art, and Music
- AI in Business Operations: Automation and Data Analytics
- Ethics, Challenges, and Future Trends of Generative AI

  
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## **Chapter 4: AI, Bias, and Control Mechanisms**

- Introduction to AI and Bias
- Sources and Impact of Bias in AI
- Ethical Implications of AI Bias
- Mitigating Bias in AI Models
- Control Mechanisms and Governance in AI Systems


## **Chapter 5: Scaling, Optimization, and Deploying Generative AI Models**

- Scaling and Optimizing Generative Models
- Deploying Generative AI Models in Production
- Monitoring, Maintenance, and Performance Tuning
- Ethical Considerations and Security in AI Deployment
- Capstone Project and Future Directions

## **Chapter 6: Future of Generative AI and Real-world applications**

- Emerging Trends in Generative AI
- Future Technologies in Generative AI
- Final Hands-on Project
- Q&A and Discussion on Career Opportunities in Generative AI

Prepared by : **Mr.I.MANIKANDAN**  
Name : **Mr.I.MANIKANDAN**  
Designation : **AP/MCA**

  
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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS  
PROGRAM SCHEDULE**

**Name of the Certificate Program : Generative AI & Prompt Engineering**  
**Program Code : 23MCAGAIPECP01**  
**Name of the Program Coordinator : Mr.I.MANIKANDAN AP/MCA**  
**Period : 02.10.2023 to 07.10.2023**

Date/ Time	9:30AMto 11:00AM (1.30 Hours)		11.10AM to 12.40PM (1.30 Hour)		1:15 PM to 4.15 PM (3 Hours)
02-10-2023	Advanced Generative Models	BREAK	Fine-tuning and Transfer Learning in Generative AI	LUNCH	Advanced Model Exploration
03-10-2023	Zero-shot, Few-shot, and Many-shot Learning		Multi-modal prompt Engineering		Few-shot and zero-shot scenarios with GPT-4/ChatGPT
04-10-2023	Generative AI for Business and Creativity		Lab : Install Python, Jupyter Notebook, and necessary libraries		Lab : Access and set up accounts with OpenAI or Hugging Face for API access.
05-10-2023	Bias and Fairness in Generative Models		Lab : Load a pre-trained GPT-2 or GPT-3 model from Hugging Face		Lab : Fine-tune a GPT-2 or GPT-3 model on a specific domain
06-10-2023	Scaling and Optimizing Generative Models		AI models for real-world applications: Web apps, chatbots, and APIs.		The future of Generative AI: Trends, innovations, and emerging technologies
07-10-2023	Future of Generative AI and Real-world Applications		Emerging Trends in Generative AI		Q&A and Discussion on Career Opportunities in Generative AI

  
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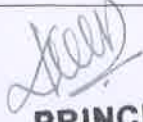


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**RESOURCE PERSON PROFILE**

<b>Title of the Programme</b>	Generative AI and prompt Engineering
<b>Duration and Timing of the Programme</b>	36 Hours and 9.30 AM to 4.15 PM
<b>Name of the Resource Person</b>	Aravind M B.Tech.IT
<b>Photo Image of the Resource Person</b>	
<b>E-mail</b>	aravindmunusamy.91@gmail.com
<b>Mobile No:</b>	8098781811
<b>Designation</b>	Lead Engineer (Deputy Manager FIXP41)
<b>Official Address</b>	ZF Group
<b>Educational Qualification</b>	B.Tech (Information Technology)
<b>Experience</b>	10 Years of experience
<b>Field of Interest</b>	Machine Learning, Big Data, IOT, Cyber Security, Artificial Intelligence

  
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**ACADEMIC YEAR 2023-2024**  
**WILLING STUDENTS NAMELIST**  
**CERTIFICATE PROGRAM ON "GENERATIVE AI AND PROMPT ENGINEERING"**

S.NO	REGISTER NUMBER	NAME	WILLINGNESS		
			YES	NO	SIGN
<b>I YEAR</b>					
1	731223622001	ARASUMANI .S	✓		S. Arasu
2	731223622002	ASHOK. S	✓		S. Ashok
3	731223622003	BOOPATHY.P	✓		P. Boopathy
4	731223622004	DHARSHINI .S	✓		S. Dharshini
5	731223622005	DINESH. K	✓		K. Dinesh
6	731223622006	MITHRAN. S	✓		S. Mithran
7	731223622007	MOHAMMAD DANYAL. M	✓		M. Danyal
8	731223622008	NISHABIN BABY . G	✓		G. Nishabin
9	731223622009	PRABHAKARAN . M	✓		M. Prabhakaran
10	731223622010	PRASANTH . N	✓		N. Prasanth
11	731223622011	SABARISH. M	✓		M. Sabarish
12	731223622012	VINOTHINI . P	✓		P. Vinothini
<b>II YEAR</b>					
13	731222622001	DURGA.K	✓		K. Durga
14	731222622005	JOSNA	✓		Josna
15	731222622006	LOGANATHAN.A	✓		A. Loganathan
16	731222622008	RAMAMOORTHIR	✓		R. Ramamoorthir
17	731222622011	SURYA.K	✓		K. Surya

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*Marijani*  
**PROGRAM COORDINATOR**

*Shob*  
**HOD**

*Surya*  
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**ACADEMIC YEAR 2023-2024**  
**CERTIFICATE PROGRAM ON "GENERATIVE AI AND PROMPT ENGINEERING"**  
**ENROLLED STUDENTS NAMELIST**

**DATE: 02.10.2023 to 07.10.2023**

S.NO	REG. NO	NAME
<b>I YEAR</b>		
1	731223622001	ARASUMANI .S
2	731223622002	ASHOK. S
3	731223622003	BOOPATHY.P
4	731223622004	DHARSHINI .S
5	731223622005	DINESH. K
6	731223622006	MITHRAN. S
7	731223622007	MOHAMMAD DANYAL. M
8	731223622008	NISHABIN BABY . G
9	731223622009	PRABHAKARAN . M
10	731223622010	PRASANTH . N
11	731223622011	SABARISH. M
12	731223622012	VINOTHINI . P
<b>II YEAR</b>		
13	731222622001	DURGA.K
14	731222622005	JOSNA
15	731222622006	LOGANATHAN.A
16	731222622008	RAMAMOORTHY.R
17	731222622011	SURYA.K

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**ACADEMIC YEAR 2023-2024**  
**CERTIFICATE PROGRAM ON "GENERATIVE AI AND PROMPT ENGINEERING"**  
**ATTENDANCE SHEET**

S. NO	NAME OF THE STUDENTS	ATTENDANCE OF THE PARTICIPANTS											
		02.10.23		03.10.23		04.10.23		05.10.23		06.10.23		07.10.23	
		F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.
<b>I YEAR</b>													
1	ARASUMANI .S	/	/	/	/	/	/	/	/	/	/	/	/
2	ASHOK. S	/	/	/	/	/	/	/	/	/	/	/	/
3	BOOPATHY.P	/	/	/	/	/	/	/	/	/	/	/	/
4	DHARSHINI .S	/	/	/	/	/	/	/	/	/	/	/	/
5	DINESH. K	/	/	/	/	/	/	/	/	/	/	/	/
6	MITHRAN. S	/	/	/	/	/	/	/	/	/	/	/	/
7	MOHAMMAD DANYAL. M	/	/	/	/	/	/	/	/	/	/	/	/
8	NISHABIN BABY .G	/	/	/	/	/	/	/	/	/	/	/	/
9	PRABHAKARAN . M	/	/	/	/	/	/	/	/	/	/	/	/
10	PRASANTH . N	/	/	/	/	/	/	/	/	/	/	/	/
11	SABARISH. M	/	/	/	/	/	/	a	a	/	/	/	/
12	VINOTHINI . P	/	/	/	/	/	/	/	/	/	/	/	/
<b>II YEAR</b>													
13	DURGA.K	/	/	/	/	/	/	/	/	/	/	/	/
14	JOSNA	/	/	/	/	/	/	/	/	/	/	/	/
15	LOGANATHAN.A	/	/	/	/	/	/	/	/	/	/	/	/
16	RAMAMOORTHIR	/	/	/	/	/	/	/	/	/	/	/	/
17	SURYA.K	/	/	/	/	/	/	/	/	/	/	/	/
<b>TOTAL NO OF STUDENTS PRESENT</b>		17	17	17	17	17	17	16	16	17	17	17	17
<b>TOTAL NO OF STUDENTS ABSENT</b>		NIL	NIL	NIL	NIL	NIL	NIL	01	01	NIL	NIL	NIL	NIL
<b>SIGNATURE OF THE PROGRAM COORDINATOR</b>													
<b>SIGNATURE OF THE HOD</b>													

*Manj...*  
**PROGRAM COORDINATOR**

**HOD**

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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**  
**ACADEMIC YEAR 2023-2024**  
**GENERATIVE AI AND PROMPT ENGINEERING**  
**ASSESSMENT**

**ANSWER ALL QUESTIONS (30\*1=30 MARKS)**

**1. What is the main idea behind Generative Adversarial Networks (GANs)?**

- A) Using a single neural network to generate data
- B) Generating data using two neural networks: a generator and a discriminator
- C) Using a pre-trained model to generate data
- D) Using random noise to generate output

**2. In GANs, what is the role of the discriminator?**

- A) To generate data from random noise
- B) To assess and differentiate between real and fake data
- C) To learn from labeled data
- D) To calculate the gradients for backpropagation

**3. Which of the following is a primary use case of Variational Autoencoders (VAEs)?**

- A) Generating high-quality images from random noise
- B) Dimensionality reduction and data compression
- C) Data labeling
- D) Clustering data into categories

**4. What is the key difference between a standard autoencoder and a Variational Autoencoder (VAE)?**

- A) VAEs generate more realistic data samples
- B) VAEs perform dimensionality reduction without reconstruction
- C) VAEs introduce a probabilistic approach to the encoding and decoding process
- D) Autoencoders have a generative component while VAEs do not

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**5. Which generative model is primarily used for creating high-quality images based on textual descriptions?**

- A) GANs
- B) VAEs
- C) Diffusion Models
- D) Variational Bayes

**6. What is the core idea behind Diffusion Models in generative image creation?**

- A) Incrementally introducing noise and learning how to reverse it
- B) Enhancing image features using convolutional networks
- C) Training on a large dataset of images to create synthetic data
- D) Using a GAN framework for image generation

**7. Which of the following is a key application of Diffusion Models such as DALL·E 2 and Stable Diffusion?**

- A) Text-to-speech generation
- B) Text-to-image generation
- C) Image segmentation
- D) Data compression

**8. What is the purpose of fine-tuning a generative AI model?**

- A) To use a model trained on a specific dataset and adapt it to a new domain
- B) To train a model from scratch on a large dataset
- C) To compress a model to a smaller size
- D) To transfer the model to another device

**9. Which of the following is a key benefit of transfer learning in generative AI?**

- A) It allows for the generation of new data without any labeled examples
- B) It enables the use of pre-trained models for task-specific applications
- C) It eliminates the need for fine-tuning the model
- D) It reduces the size of the model for faster inference



**10. In fine-tuning a GPT-based model for a specific domain (e.g., medical or legal texts), what is the main advantage?**

- A) Faster training
- B) Better performance on domain-specific tasks
- C) Reducing the model size
- D) Eliminating the need for data

**11. Which industry commonly uses fine-tuned generative models for creating synthetic text data in the medical field?**

- A) Entertainment
- B) Healthcare
- C) Finance
- D) Retail

**12. Which is an example of a domain-specific task where fine-tuned models are applied?**

- A) Text summarization
- B) Financial forecasting
- C) Legal document generation
- D) Image classification

**13. What type of model would most likely be fine-tuned for image generation in an artistic style?**

- A) GPT-3
- B) Stable Diffusion
- C) BERT
- D) T5

**14. In GANs, the generator is responsible for:**

- A) Discriminating real and fake images
- B) Generating fake images from random noise
- C) Modifying existing images
- D) Fine-tuning the model



15. Which technique is commonly used for image manipulation using Variational Autoencoders (VAEs)?
- A) Generating text descriptions
  - B) Manipulating latent space representations to modify images
  - C) Detecting outliers in images
  - D) Upscaling images
16. When working with pre-trained diffusion models like Stable Diffusion, what is typically the input?
- A) Random noise
  - B) A pre-existing image
  - C) A text prompt or description
  - D) Structured data like tables or graphs
17. Fine-tuning GPT models on legal or medical text data is typically used to:
- A) Increase the model's ability to generate creative writing
  - B) Improve the model's performance in answering domain-specific queries
  - C) Improve image generation capabilities
  - D) Enable text summarization for short articles
18. Which of the following is a key advantage of using pre-trained diffusion models like DALL·E 2 for image generation?
- A) They can create high-quality images from both textual descriptions and noisy images.
  - B) They are faster than GAN-based image generation models.
  - C) They only work for specific art styles.
  - D) They require less computational power than GANs.
19. Which of the following is a key concern when it comes to AI-generated content in journalism?
- A) Speed of content creation
  - B) Potential spread of misinformation and deepfakes
  - C) Cost of content production
  - D) Lack of creativity in generated content



**20. What is a primary privacy concern related to generative AI models?**

- A) Generating data that may be too creative
- B) Misuse of AI for creating fake identities and personal data
- C) Generating irrelevant or outdated information
- D) Difficulty in fine-tuning models

**21. How can generative AI impact the entertainment industry?**

- A) By reducing content creation time
- B) By enabling new forms of content generation, such as deepfakes
- C) By eliminating the need for human actors and creators
- D) By making content generation less efficient

**22. How do biases typically get introduced into generative AI models?**

- A) Through biased training data
- B) Due to model overfitting
- C) Through random sampling of data
- D) By using unstructured data

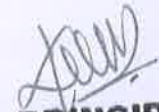
**23. Which of the following is a technique for mitigating bias in generative AI models?**

- A) Increasing model size
- B) Using synthetic data that balances biases
- C) Reducing model parameters
- D) Increasing training data diversity

**24. What is an example of harmful content that generative AI models may produce?**

- A) Creative writing
- B) Toxic language or hate speech
- C) Objective summaries of news articles
- D) Neutral product descriptions

  
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**25. Which of the following is a strategy for controlling biased or harmful outputs in generative AI?**

- A) Restricting model parameters to limit creativity
- B) Implementing content filtering and moderation mechanisms
- C) Training models on only positive datasets
- D) Avoiding any type of feedback loops

**26. When conducting an ethical review of generative outputs, what should be the primary focus?**

- A) Generating creative and new ideas
- B) Ensuring the content aligns with ethical and societal norms
- C) Reducing model complexity
- D) Increasing the speed of generation

**27. Which of the following techniques is used to improve the efficiency of generative AI models?**


- A) Increasing the size of training datasets
- B) Model pruning to remove unnecessary parameters
- C) Expanding the neural network layers
- D) Reducing the number of training epochs


**28. What is the main goal of optimizing generative models for real-time applications?**

- A) Reducing the model's size to make it portable
- B) Increasing the model's accuracy
- C) Reducing latency and improving response time
- D) Making the model more complex

**29. How can generative AI models be scaled for large deployment on cloud platforms?**

- A) By storing the model in a centralized location and using distributed computing for parallel processing
- B) By reducing the model's accuracy to improve speed
- C) By limiting the number of users who can access the model
- D) By using only a single server to run the model

  
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30. Which of the following is a key consideration when deploying generative AI models in business environments?

- A) Managing and scaling API calls
- B) Increasing the model size to ensure accuracy
- C) Reducing the frequency of model updates
- D) Ensuring that the model only works offline

  
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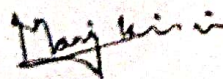
**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**  
**ACADEMIC YEAR 2023-2024**

**CERTIFICATE PROGRAM ON " GENERATIVE AI AND PROMPT ENGINEERING"**  
**STUDENTS MARKLIST**

**DATE: 02.10.2023 to 07.10.2023**

S.NO	REG. NO	NAME	MARKS
<b>I YEAR</b>			
1	731223622001	ARASUMANI .S	85
2	731223622002	ASHOK. S	87
3	731223622003	BOOPATHY.P	82
4	731223622004	DHARSHINI .S	93
5	731223622005	DINESH. K	81
6	731223622006	MITHRAN. S	83
7	731223622007	MOHAMMAD DANYAL. M	89
8	731223622008	NISHABIN BABY . G	84
9	731223622009	PRABHAKARAN . M	94
10	731223622010	PRASANTH . N	81
11	731223622011	SABARISH. M	80
12	731223622012	VINOTHINI . P	84
<b>II YEAR</b>			
13	731222622001	DURGA.K	92
14	731222622005	JOSNA	87
15	731222622006	LOGANATHAN.A	82
16	731222622008	RAMAMOORTHI.R	85
17	731222622011	SURYA.K	82

**Note:** The students those who **PRINCIPAL** above 50 Marks and above are consider eligible for program completion

  
**PROGRAM COORDINATOR**

**J.K.K. MUNIRAJAH COLL:  
OF TECHNOLOGY  
T.N. PALAYAM (Po)-638 506  
GOBI (Tk), ERODE (Dt)**

  
**HOD**

  
**PRINCIPAL**



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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS  
ACADEMIC YEAR 2023-2024  
SUMMARY/ OUTCOME REPORT**

**Name of the Certificate Program : GENERATIVE AI AND PROMPT ENGINEERING**

**Program Code : 23MCAGAIPECP01**

**Name of the Program Coordinator : Mr.I.MANIKANDAN AP/MCA**

**Number of Students Enrolled : 17**

**Duration:36 Hours**

**Number of Students Completed : 17**

I hereby affirm that the entire Program contents in the Certificate Program "GENERATIVE AI AND PROMPT ENGINEERING" listed in the Syllabus have been actually learned by the students as the part of the prescribed co-curricular activities through Certificate Program.

I confirmed that the Certificate Program title as **Generative AI and Prompt Engineering** Work Bench was done by me in the beginning of this semester and Program delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Program were actively attended and learned well throughout the duration of this Program. And all students were successfully completed and eligible to receive the completion certificate.

**OUTCOME:** Students shall be able to gain the knowledge in

- Understand the Fundamentals of Generative AI
- How to create a new content, such as text, images, audio, or even video, based on patterns they've learned from large datasets.
- Practical skills in **scaling and deploying AI models** in production environments.
- Expertise in prompt engineering, including zero-shot, few-shot, and multi-modal learning.

**Name : Mr.I.MANIKANDAN**

**Designation:** Assistant Professor/MCA

  
**PROGRAM COORDINATOR**

  
**HOD**

  
**PRINCIPAL**