



H.K.E. Society's
Sir. M. Visvesvaraya College of Engineering
(Affiliated to VTU - Belagavi, Approved by AICTE – New Delhi, Accredited by NAAC)
Yeramarus Camp, Raichur – 584135



Placement Cell

Organized a Generative Artificial Intelligence (Gen AI) Orientation Program

The Training & Placement Department of H.K.E. Society's Sir M. Visvesvaraya College of Engineering, Raichur, organized a **Generative Artificial Intelligence (Gen AI) Orientation Program** for the final-year students of **Computer Science and Engineering (CSE) and Electronics and Communication Engineering (ECE)** on 4 August 2026 during the afternoon session.

The orientation was conducted to create awareness among students about the rapidly evolving field of Generative AI and its growing importance in engineering education, software development, and the technology industry. The session introduced students to the practical and career-oriented applications of Gen AI and highlighted the importance of developing industry-relevant AI skills.

The program was based on the broader approach of **Applied Generative AI Engineering**, which focuses on taking learners from their first prompt to building and deploying practical AI systems, with an emphasis on real-world engineering rather than theoretical learning alone.

Objectives of the Program

The major objectives of the orientation program were:

- To introduce students to the fundamentals of **Generative Artificial Intelligence**.
- To create awareness about how **Large Language Models (LLMs)** work and their practical applications.
- To introduce students to **prompt engineering and context engineering**.
- To familiarize students with AI-assisted coding and modern AI development tools.
- To create awareness about emerging technologies such as **Retrieval-Augmented Generation (RAG), vector databases, AI agents, and Model Context Protocol (MCP)**.
- To highlight the importance of evaluation, reliability, security, cost, and performance while developing AI applications.
- To encourage students to develop practical AI skills relevant to current industry requirements.
- To create awareness about AI-based career opportunities and placement readiness.

Key Areas Covered During the Orientation

The session provided students with an overview of the different stages involved in developing practical Generative AI applications.

a) Understanding Large Language Models

b) Prompt and Context Engineering

c) AI-Assisted Coding

d) Retrieval-Augmented Generation

e) AI Agents and Multi-Agent Systems

f) Deployment and Production

4. Tools and Technologies Introduced

The orientation created awareness about a range of current AI tools and technologies, including:

- ChatGPT
- Google Gemini
- Claude
- Google AI Studio
- ChatGPT Playground
- Cursor
- Claude Code
- Google Antigravity
- Python
- Lang Graph
- MCP
- Chroma DB
- Pinecone
- Langfuse
- FastAPI
- AWS

The course proposal emphasizes exposure to multiple AI platforms so that students develop **tool-agnostic judgment** rather than depending on a single AI product.

Industry and Placement Relevance

The orientation highlighted that Generative AI is becoming an important skill area for engineering graduates. Students were encouraged to develop practical capabilities rather than limiting their learning to theoretical knowledge.

The program emphasized **production-style projects, evaluation, technical decision-making, security, cost awareness, and the ability to explain and defend an AI system**. These competencies are particularly relevant for technical interviews and AI-oriented career opportunities.

The course proposal also includes dedicated **Gen AI system-design and project-defense preparation**, where students learn to explain architecture decisions, retrieval strategies, agent choices, evaluation results, and operating costs.

Participation

The program was attended by the **final-year students of CSE and ECE** during the afternoon session. Students actively participated in the orientation and gained exposure to the rapidly developing field of Generative AI and its applications in engineering and technology.

The session encouraged students to explore emerging AI technologies and understand the skills required to become industry-ready professionals in an AI-driven environment.

Key Outcomes

The orientation program helped students to:

- Understand the fundamentals of Generative AI and LLMs.
- Gain awareness of prompt and context engineering.
- Understand the role of AI-assisted coding in software development.
- Gain introductory knowledge of RAG and vector databases.
- Understand the concept of AI agents and multi-agent systems.

- Become aware of AI application deployment and cloud technologies.
- Recognize the importance of evaluation, security, observability, and cost management.
- Explore various AI tools and platforms.
- Understand the importance of practical projects and industry-oriented learning.
- Gain awareness of emerging career and placement opportunities in Generative AI.

8. Conclusion

The **Generative AI Orientation Program**, conducted during the **afternoon session on 4 August 2026**, was an informative and industry-oriented initiative for the final-year CSE and ECE students.

The program provided students with a broad understanding of the Generative AI ecosystem, ranging from **LLMs and prompt engineering to RAG, AI agents, deployment, security, evaluation, and placement-oriented project development**. The session encouraged students to move beyond merely using AI tools and develop the engineering judgment required to build, evaluate, and responsibly apply AI systems.

The Training & Placement Department appreciates the participation of the students and the support extended by all concerned in making the orientation program successful.

