St. JOSEPH'S DEGREE COLLEGE

Sunkesula Road, Kurnool – 518 004 A.P.

(Affiliated to Rayalaseema University, Kurnool)

A DETAILED REPORT

ON

FACULTY DEVELOPMENT PROGRAMME (FDP)

"AI Tools for Learning, Teaching, and Research"

Organized by:
Department of Computer Science, Vikrama Simhapuri University
Venue: Nellore

Duration:
1st December 2025 – 5th December 2025

Submitted by:

1. **Dr. C. S. Sreenivasa Rao**
2. **B. Sai Srujana**
3. **K. Chaitanya Lakshmi**
4. **Akhil Modi**

Academic Year

2025-2026

VIKRAMA SIMHAPURI UNIVERSITY
Nellore - 524 324, Andhra Pradesh
Department of Computer Science

Dr. M. Ussenaiah
Associate Professor
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Dated 28-11-2025

Dear Participant,

Sub Five-Day Hands-on Faculty Development Programme on "AI Integration in Teaching, Learning, and Research" scheduled from 1st to 5th December 2025 at Department of Computer Science, Vikrama Simhapuri University, Nellore – Selection – Intimation – Regarding

This is with reference to your application expressing interest in participating in the Five-Day Hands-on Faculty Development Programme on "AI Integration in Teaching, Learning, and Research" scheduled from 1st to 5th December 2025 at Department of Computer Science, Vikrama Simhapuri University, Nellore, we are happy to inform that, you have been provisionally selected for the above programme. Participants should submit Relieving / Permission Letter. Provisional List of the participants as given Annexure -1.

Ussenaiah 28/11/25
Signature of the Organizing Secretary

GIST

1. INTRODUCTION

Faculty Development Programmes (FDPs) are essential in the modern academic landscape to ensure that educators remain at the forefront of pedagogical and technological advancements. In recent years, Artificial Intelligence (AI) has emerged as a transformative force in the global education sector.

The FDP on **"AI Tools for Learning, Teaching, and Research,"** hosted by the Department of Computer Science at Vikrama Simhapuri University, was designed to bridge the gap between traditional teaching methods and modern AI-driven practices. As education shifts toward more personalized and data-driven models, it is imperative for college lecturers to master Generative AI, automated assessment tools, and AI-powered research assistants. This report outlines the insights gained and the practical applications observed during the five-day intensive program.

2. OBJECTIVES OF THE FDP

The primary objectives of the programme were:

- **Understanding AI Tools for Academic Purposes:** To familiarize participants with the ecosystem of AI and its relevance in higher education.
- **Enhancing Teaching Methodologies:** To demonstrate how AI can be used to create engaging content, presentations, and lesson plans.
- **Research Applications:** To introduce tools that assist in literature review, data analysis, and manuscript preparation.
- **Ethical Use of AI:** To discuss the challenges of plagiarism, data privacy, and the ethical boundaries of using AI in an academic setting.

3. DAY-WISE SUMMARY

Date	Session Theme	Key Topics Covered
Day 1	Foundations of AI in Education	History of AI, LLMs (ChatGPT, Gemini), Prompt Engineering Basics.
Day 2	Generative AI for Content Creation	AI for PPTs, Video generation, and Visual Aids.
Day 3	AI for Research & Writing	Literature mapping, Reference management, AI-driven data analysis.
Day 4	Assessment & Evaluation Tools	Automated grading, Quiz generation, Rubric builders.
Day 5	Ethics & Future Roadmap	Plagiarism detection, AI Policy, Hands-on Project Presentation.

Day 1: Introduction to AI in the Academic Ecosystem

The inaugural day focused on the evolution of AI. Experts from Vikrama Simhapuri University introduced participants to Large Language Models (LLMs). A significant portion of the day was dedicated to **Prompt Engineering**, teaching lecturers how to craft precise instructions to obtain high-quality academic outputs from AI.

Day 2: AI for Learning and Teaching (Pedagogy)

The focus shifted to classroom engagement. Participants explored tools like **Gamma** and **Canva AI** for instant presentation generation, and **Curipod** for interactive lessons. The session demonstrated how to transform a simple syllabus outline into a comprehensive multi-media lesson plan in minutes.

Day 3: AI for Research and Academic Writing

This day was crucial for the research-oriented faculty. Tools like **Perplexity AI** for real-time cited information and **Elicit/Scite.ai** for literature review were showcased. The facilitators demonstrated how AI can help summarize voluminous research papers and identify research gaps without compromising academic integrity.

Day 4: AI-based Assessment and Evaluation

The fourth day addressed the administrative burden of grading. The sessions covered **Quizgecko** and **MagicSchool AI**, which help in generating multiple-choice questions (MCQs) and descriptive rubrics. Discussions were held on how AI can provide personalized feedback to students at scale.

Day 5: Ethical Dimensions and Case Studies

The final day involved a roundtable discussion on the ethics of AI. Topics included the "Black Box" nature of AI and the importance of maintaining human oversight. The FDP concluded with a "Hands-on Showcase" where our team developed a sample AI-integrated curriculum module.

4. HANDS-ON SESSIONS AND CASE STUDIES

The FDP was not merely theoretical; it emphasized **Practical Exposure**. Every afternoon session was dedicated to a computer lab environment where participants:

- Generated a 10-page course module using AI-assisted research.
- Created automated grading rubrics for a mock assignment.
- Used AI tools to clean and visualize a sample dataset for research.
- Analyzed case studies of universities worldwide that have successfully integrated AI policies.

5. KEY LEARNINGS

As participants, we identified the following core takeaways:

1. **Efficiency in Content Creation:** AI significantly reduces the time required to create high-quality teaching materials.
2. **Research Productivity:** Tools like **Zotero** combined with AI plugins can streamline citation and bibliography management.
3. **Personalized Learning:** AI allows for the creation of diverse learning paths for students with different learning speeds.
4. **Automation:** Routine tasks like attendance tracking analysis and basic grading can be automated, allowing faculty to focus more on mentorship.

6. OUTCOMES OF THE FDP

The successful completion of this FDP has resulted in:

- **Knowledge Enhancement:** Deep understanding of the difference between various AI models and their specific strengths.
- **Adoption of Modern Practices:** Capability to introduce AI-based interactive sessions in our college.
- **Improved Research Capabilities:** Enhanced ability to conduct literature surveys and draft research papers efficiently.
- **Future Implementation Plan:** We intend to conduct an internal "Knowledge Sharing Session" for our departmental colleagues to disseminate these learnings.

7. CONCLUSION

The five-day FDP at Vikrama Simhapuri University was an enriching and transformative experience. It provided a perfect blend of theoretical knowledge and practical application. We extend our sincere gratitude to the Department of Computer Science, VSU, for their hospitality and expert guidance. We are also grateful to our College Administration for providing us the opportunity to attend this programme, which will undoubtedly enhance the quality of education we provide to our students.

Certificates of Participation

VIKRAMA SIMHAPURI UNIVERSITY
NELLORE-524324, ANDHRA PRADESH, INDIA
(Accredited with NAAC 'A' Grade CGPA 3.23)

CERTIFICATE OF PARTICIPATION

This is to certify that **Karanam Chaitanya Lakshmi** working as in the **Computer Science , St.Joseph's Degree College** has participated in the **Five-Day Hands-on Faculty Development Programme on "AI Integration in Teaching, Learning, and Research"** sponsored by PM-USHA (PRADHAN MANTRI UCHCHATAR SHIKSHA ABHIYAN) organized by Department of Computer Science, Vikrama Simhapuri University, Nellore during 1st – 5th December 2025.

Dr. M. Ussenaiah
Activity Coordinator

Prof. Ch. Vijaya
Principal

VIKRAMA SIMHAPURI UNIVERSITY
NELLORE-524324, ANDHRA PRADESH, INDIA
(Accredited with NAAC 'A' Grade CGPA 3.23)

CERTIFICATE OF PARTICIPATION

This is to certify that **P Sai Srujana** working as in the **Computer Science , St. Joseph's Degree College** has participated in the **Five-Day Hands-on Faculty Development Programme on "AI Integration in Teaching, Learning, and Research"** sponsored by PM-USHA (PRADHAN MANTRI UCHCHATAR SHIKSHA ABHIYAN) organized by Department of Computer Science, Vikrama Simhapuri University, Nellore during 1st – 5th December 2025.

Dr. M. Ussenaiah
Activity Coordinator

Prof. Ch. Vijaya
Principal

SIGNATURE SECTION

Submitted by:

Dr. C. S. Sreenivasa Rao

B. Sai Srujana

K. Chaitanya

Akhil Modi

Date: 10th December 2025
Place: Sunkesula Road, Kurnool.

Verified by:
S Latha Rani
(Head of Computer Science Department)

Approved by:

Dr. K Shanta
(Principal/Director)