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Presents

14 Days Faculty Development Program on “Generative AI and Advanced Tools for Academic Research”



CALL FOR REGISTRATIONS

Date: February 03 - 16, 2025 | Time: 06:00 PM - 07:00 PM

Mode: Online (Zoom Video Conferencing)



FDP on “Generative AI and Advanced Tools for Academic Research”

Overview of FDP: The Faculty Development Program (FDP) is a comprehensive initiative to empower educators, researchers, and academic professionals with advanced knowledge and practical skills in integrating Artificial Intelligence (AI) into academic research and administrative processes. The program focuses on hands-on learning, ethical considerations, and the latest tools and technologies, ensuring participants gain practical insights to enhance their academic practices.

Key Highlights:

- **Comprehensive Curriculum:** A detailed schedule covering various topics, including AI applications in research, reference management, and presentation design.
- **Practical Learning:** Hands-on training with tools such as ChatGPT, Mendeley, Zotero, Google Colab, and more.
- **Ethical Considerations:** Emphasis on the ethical use of AI in academic settings.
- **Collaborative Learning:** Opportunities for group projects, presentations, and discussions to enhance peer learning.
- **Final Assessment:** A comprehensive test on Day 14 to evaluate the knowledge and skills gained throughout the FDP.

Focus Areas

- **AI in Academic Research**
- **Reference Management Tools** (Mendeley, Zotero)
- **Writing and Editing with AI** (MS Word, PowerPoint, Grant Proposals)
- **Data Management & Visualization**
- **Ethical Use of AI in Academia**

Outcome

Participants will leave the FDP with:

- Enhanced skills in using AI for research and academic administration.
- A deeper understanding of AI tools and technologies applicable in educational settings.
- Practical experience in managing academic projects and data with AI assistance.
- Greater confidence in incorporating AI into their academic and professional workflows.



Topics to be covered:

1. Introduction to AI in Academic Research

- What is Artificial Intelligence (AI) and how it impacts academic work.
- Real-world applications of AI in research.
- Ethical considerations when using AI in academia, ensuring responsible use.
- Case studies showcasing AI's role in transforming research methods.

2. Using Gen AI Tools

- Hands-on exploration of tools like ChatGPT to enhance research workflows.
- How AI can assist with brainstorming ideas, writing, and literature reviews.
- Maximizing the potential of other Gen AI tools to boost productivity in research.

3. Creating Effective Research Questionnaires

- A step-by-step guide to designing research questionnaires using AI.
- Tools like Google Forms and Typeform for unbiased and clear question formulation.
- AI-driven approaches to detect bias and improve question quality.

4. Research Paper Writing Using MS Word

- Streamlining research paper writing with AI-supported formatting.
- Managing citations efficiently within MS Word using AI tools.
- Enhancing paper quality through AI-powered editing and plagiarism detection.

5. Reference Management – Mendeley and Zotero

- Organizing and managing research references with Mendeley.
- Getting started with Zotero for effective reference management.
- Comparing Mendeley and Zotero to find the best fit for your research needs

6. Advanced Tools for AI Research

- Exploring tools like Google Colab, TensorFlow, and PyTorch for AI research.
- Collaborating on projects using platforms like GitHub and Weights & Biases.
- Leveraging AI-driven tools for data annotation and model development.



7. Creating Engaging PowerPoint Presentations with AI

- Designing impactful PowerPoint presentations with AI tools.
- Structuring presentations with visuals, multimedia, and interactive content.
- Using tools like Beautiful.ai and Canva for automated slide design.

8. AI for Paper Writing and Grant Proposals

- Using AI to streamline research paper writing and proposal development.
- Structuring grant proposals with AI-supported language refinement and budgeting.
- Best practices for enhancing proposal quality with AI assistance.

9. Data Management and Visualization with AI

- Managing research data using AI-powered tools like Excel, Power BI, and Tableau.
- Automating data insights and visualizations with AI-driven platforms.
- Creating detailed visualizations with tools like Matplotlib and Seaborn.

10. Ethics and Responsible Use of AI

- Addressing ethical challenges in AI-driven academic research.
- Developing frameworks for the responsible and transparent use of AI.
- Building policies for ensuring ethical AI integration in research workflows.

11. Final Learning Outcome Assessment

- A comprehensive assessment covering all FDP topics.
- Group and individual project presentations with feedback from peers and facilitators.
- Practical application of AI tools in real-world academic research and teaching scenarios.

Day to Day Schedule

Date	Day	Session/Topic
February 3	Day 1	Introduction to AI in Academic Research
		Ethical considerations in AI use in academia.
February 4	Day 2	Utilizing Gen AI and Other Tools
		Applications for brainstorming, literature review, and content creation.
February 5	Day 3	Research Questionnaire Development
		Tools for crafting unbiased and clear questions: Google Forms, Typeform.
February 6	Day 4	Zotero Reference Management
		Comparison of Zotero vs. Mendeley for research reference management.
February 7	Day 5	Research Paper Writing Using MS Word
		Integrating citations seamlessly with AI tools in MS Word.
February 8	Day 6	Mendeley Reference Management
		Generating bibliographies and citations.
February 9	Day 7	Break Day
February 10	Day 8	Tools for AI Researchers
		Collaborative coding platforms for data collection and modeling.
February 11	Day 9	Essentials of PowerPoint Presentation
		Incorporating multimedia, visuals, and graphs into presentations.
February 12	Day 10	AI for PowerPoint Generation
		Generating consistent, visually appealing slides from text prompts.
February 13	Day 11	AI-Driven Paper Writing
		Using ChatGPT, Grammarly, and other Gen AI tools for efficient academic writing.
February 14	Day 12	Writing Grant Proposals with Gen AI
		AI-supported budgeting and proposal refinement.
February 15	Day 13	Excel and AI for Data Management
		Automating data insights with Tableau, Power BI, and other analytics platforms.
February 16	Day 14	Final Learning Outcome Test



Focused Audience:

This FDP is going to be immensely beneficial to faculty and research scholars of all levels and in different disciplines.

Mode of Delivery:

Resource Persons will deliver lectures in interactive mode and conduct hands-on sessions in FDP mode through Zoom Video Conferencing platform.

Confirmation of Participation: On receipt of registration, participants will be sent confirmation of their participation through email. Participation for this program is limited. Apply early to avoid disappointment

Learning Outcome Test: A short learning outcome test will be conducted after the session to revise what is learned. Certificates will be shared to participants attending both the session and the test.

Bonus

As a Bonus to this FDP, you will get the Recorded videos of the session, Learning Resources/Step by Step Guide, and helpful E-books for self-learning.

FDP Details

- FDP Date: January 23 - February 05, 2025
- FDP Time: 06:00 PM - 07:00 PM
- Instructor: Roshan Singh
- Language: English
- Validity Period: Lifetime
- Fee: ₹1000 (Additional 18% GST)

Registration Link:

<https://scrollwell.com/course/fdp-on-modern-research-techniques-with-ai-integration/>

For more information,

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IMPORTANT:

- Attempting and submitting all the quizzes and assignments is mandatory.
- Participants should score a minimum of 50% in total to avail the programme completion certificate. Graded certificates will be awarded on the basis of performance. all participants need to submit online feedback for each session.
- Failing to meet any of the above conditions will result in denial of a certificate of completion to the participants.
- Registration is mandatory for participation

FDP Instructor**Roshan Singh**

Founder and Educator - Scrollwell
Google Certified Educator

As the founder of Scrollwell, I am passionate about strengthening educators and empowering learners. Through my work, I strive to build a world where everyone has access to quality education and the tools they need to succeed. Creating impactful solutions that empower learners and strengthen educators.

With over 5 years of experience impacting 48000+ teachers, students, and young professionals through classroom boot camps and online courses. I am a Google Certified Educator with teaching experience in both traditional and online learning environments. Moreover, I am an MBA from National Institute of Technology, Jalandhar, and well accomplished in business planning, Microsoft Word, Microsoft PowerPoint, Microsoft Excel, and Digital Marketing. I have also consulted with various schools, organizations, and companies for education-related services across different geographies in India.

