



Best Practice Report

D.B.S. Degree (P.G.) College, Kanpur

Academic Session: 2025–26

1. Title of the Best Practice

Integration of Artificial Intelligence Awareness in Scientific Research through Academic Webinar

2. Objectives of the Practice

- To create awareness about the role of Artificial Intelligence (AI) in modern scientific research.
- To bridge the gap between traditional scientific methodologies and emerging digital technologies.
- To encourage interdisciplinary research and innovation among students and faculty.
- To align academic practices with NEP 2020 and digital transformation goals.
- To promote quality enhancement initiatives under the guidance of IQAC.

3. Context

With rapid technological advancement, Artificial Intelligence has become an essential tool in scientific innovation. Higher education institutions must prepare students to adapt to emerging technologies. Recognizing this need, the Department of Chemistry of D.B.S. Degree (P.G.) College, under the guidance of Internal Quality Assurance Cell (IQAC), organized a webinar to sensitize students and faculty to AI-driven research methodologies. The initiative was conducted in collaboration with Xelpoc Design and Tech Ltd. to ensure industry-academia linkage.

4. The Practice

The Department of Chemistry organized a webinar on “**Role of Artificial Intelligence in Modern Scientific Research**” on **24 January 2026**.

Key Highlights:

- Presence of Principal **Prof. Anil Kumar Mishra**
- Guidance of Head of Department **Prof. C. M. Saxena**
- Distinguished keynote speakers:
 - Dr. Naveen Kumar
 - Mr. Sambit Mukherjee
- Convened by Dr. Tamanna Begum

The speakers delivered expert lectures on:

- AI in data analysis and predictive modelling
- Laboratory automation
- Drug discovery and pharmaceutical research
- Interdisciplinary applications of AI
- Future prospects of AI in scientific innovation

The session included interactive discussions, faculty participation, and student engagement.

5. Evidence of Success

- Active participation of UG and PG students and faculty members.
- Enhanced awareness regarding AI tools in research methodology.
- Positive feedback from participants.
- Strengthened industry-academia collaboration.
- Encouragement for future workshops on AI tools and research software.

The webinar successfully motivated students to explore AI-based research projects and digital tools.

6. Problems Encountered and Resources Required

Problems Encountered:

- Limited prior exposure of students to AI-based tools.
- Need for more hands-on training sessions.
- Technical coordination challenges during virtual sessions.

Resources Required:

- AI software training workshops.
- Institutional access to AI-based research platforms.
- Dedicated ICT infrastructure support.
- Continuous collaboration with industry experts.

7. Impact of the Practice

- Promoted digital literacy in scientific research.
- Encouraged innovative and technology-oriented thinking.
- Strengthened quality culture under IQAC initiatives.
- Supported NEP 2020 emphasis on multidisciplinary and technology-driven education.

8. Future Plan

- Organizing certificate courses on AI in Research.
- Conducting hands-on training workshops on AI tools.
- Developing interdisciplinary research proposals integrating AI.
- Establishing long-term collaboration with technology firms.

Conclusion

The webinar on “Role of Artificial Intelligence in Modern Scientific Research” stands as a significant Best Practice of the Department of Chemistry, D.B.S. Degree (P.G.) College. It reflects the institution’s commitment to academic excellence, digital transformation, and quality enhancement under IQAC initiatives. The practice successfully strengthened awareness, innovation, and research orientation among students and faculty.

Role of Artificial Intelligence in M...

very informative lecture

vishnu tripathi 2:58 PM
Thanks sir

Saman Katiyar 3:58 PM
Thank you sir for the very descriptive talk

Draarvesh Kumar Kushwaha 3:58 PM
Thank you sir

Archna Saxena 3:59 PM
Very informative webinar organised by our team of DBS College Kanpur

Abhishek Yadav 3:59 PM
THANKS SIR

Sambit Mukherjee 3:59 PM
Link to presentation:
https://docs.google.com/presentation/d/1a2cgm1aWu4rH4SPLEBxV5deBaT_LK2jfhG_KH_FyGEdtD3uauahar9

D.B.S. College, Kanpur {xelp}
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Cordially invite you to join a Webinar on the Role of Artificial Intelligence in Modern...

Participants: Sambit Mukherjee, DR C M Saxena, Prateek Pandey, Principal D.B.S. College, Pankaj Shukla, Naushad Vahi, 67 others.