



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (Deemed to be University)



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A Report on Seminar on “AI Use in Research: Understanding the Risks of Article Retractions” Organized by Research and Development Cell on 11.08.2026



Report Submitted by: Dr. P. Sivaiah, Associate Dean – Research & Development

Resource Person Details: Prof. Sonali Agarwal, Professor, Department of Information Technology, IIIT Allahabad

Venue: MITS Campus, Madanapalle

Mode of Conduct: Offline

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The Research and Development Cell of Madanapalle Institute of Technology & Science (MITS), Deemed to be University, organized a seminar titled “AI Use in Research: Understanding the Risks of Article Retractions” on 11 August 2026. The programme was conducted to strengthen awareness among faculty members and researchers on the responsible use of Artificial Intelligence in academic and scientific research, with particular emphasis on research integrity, publication ethics, and the growing concern of research article retractions.

Prof. Sonali Agarwal, Professor, Department of Information Technology, Indian Institute of Information Technology Allahabad (IIIT Allahabad), served as the resource person. Drawing on her academic and research experience, she explained how AI tools can support literature exploration, language refinement, data analysis, idea generation, and research documentation. She also cautioned that unverified, excessive, or inappropriate use of AI may compromise originality, reliability, transparency, and ethical standards in scholarly work.

A major focus of the seminar was the prevention of research article retractions. The session discussed plagiarism, data fabrication and falsification, duplicate publication, authorship disputes, ethical violations, image or data manipulation, unreliable or fabricated references, methodological errors, and inappropriate or undisclosed AI-generated content as important causes that may undermine the credibility of published research.



Objectives:

1. To create awareness on responsible and ethical use of Artificial Intelligence in research and scholarly publishing.
2. To explain the major causes and consequences of research article retractions.
3. To emphasize verification of AI-generated information, references, interpretations, and research outputs.
4. To strengthen research integrity, transparency, responsible authorship, and publication ethics among faculty members and researchers.

Session Highlights:

Prof. Agarwal emphasized that Generative AI must be treated as a supportive research aid rather than a substitute for human intellectual contribution. AI-generated outputs may contain inaccurate statements, misleading interpretations, fabricated facts, non-existent citations, or hallucinated references. Researchers were therefore advised to independently verify all AI-assisted content using authentic scholarly sources and established scientific evidence.

The seminar also highlighted research transparency and accountability. Participants were encouraged to follow the AI-use policies of journals, publishers, funding agencies, and institutions, and to disclose the use of AI-assisted tools wherever required. Particular emphasis was placed on verifying every reference for authenticity, relevance, authorship, publication details, and scientific validity before inclusion in a manuscript.

Further discussion covered originality, data integrity, documentation, ethical image preparation, and responsible authorship. Researchers were advised to preserve original data and supporting records, avoid inappropriate alteration of figures or images, and ensure that all listed authors have made genuine intellectual or research contributions to the work.

**Key Takeaways:**

1. AI tools can support research activities, but the researcher remains fully responsible for the accuracy, originality, and integrity of the final output.
2. AI-generated information, citations, and interpretations must be independently verified before use.
3. Plagiarism, fabrication, falsification, duplicate publication, image manipulation, and unethical authorship practices must be strictly avoided.
4. AI-assisted tools should be used in accordance with institutional, publisher, and funding-agency guidelines, with appropriate disclosure wherever required.
5. Original research data, documentation, references, and communications should be properly maintained.
6. Human judgment, critical thinking, originality, and academic responsibility must remain central to the research process.

Outcome of the Programme:

The seminar enhanced participants' understanding of the ethical and responsible use of Artificial Intelligence in research and scholarly publishing. Faculty members gained clearer awareness of the major reasons for article retractions and the preventive measures that can be adopted during research design, data handling, manuscript preparation, authorship, reference management, and publication.

The programme also reinforced the need for institutional mechanisms that promote academic integrity, responsible research practices, transparent disclosure, and compliance with publisher policies. The interaction encouraged faculty members to view AI as a valuable research-support tool that must always be accompanied by independent verification and scholarly accountability.

Conclusion:

The seminar on “AI Use in Research: Understanding the Risks of Article Retractions” was highly relevant in the present research environment, where AI-assisted tools are increasingly becoming part of academic and scientific workflows. The session successfully highlighted both the potential benefits and the associated risks of AI use in research. Through focused discussion on publication ethics, article retractions, reference verification, research transparency, data integrity, authorship ethics, and responsible AI practices, the programme contributed to strengthening awareness among faculty members regarding high standards of research conduct.

The initiative of the Research and Development Cell reaffirmed MITS’s commitment to promoting ethical, transparent, responsible, and high-quality research. The seminar encouraged participants to adopt preventive practices that reduce the risk of publication misconduct and retraction while preserving trust, credibility, and academic excellence in scholarly communication.

Newspaper Clips:

MITS conducts awareness programme on research article retraction

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THE Department of Research and Development at the Deemed-to-be University, Madanapalle Institute of Technology & Science (MITS), organised an awareness programme on ‘Research Article Retraction’ at its campus on Wednesday.

Delivering the keynote address, Dr R Tulasi Ram Naidu, University Advisor (R&D), emphasized the importance of research ethics, transparency and adherence to publication standards. He explained that article retraction involves the formal withdrawal of published research found to be invalid, unethical, or misleading,

often due to plagiarism, data fabrication, or ethical violations. Dr D Pradeep Kumar, Registrar, highlighted that ethical and high-quality publications enhance institutional credibility. The session, coordinated by Dr P Sivaiah, Associate Dean (R&D), saw active participation from faculty across departments.