

Indian Journal of Modern Research and Reviews

This Journal is a member of the '*Committee on Publication Ethics*'

Online ISSN:2584-184X



Review Article

Future Of B.Ed. Colleges In the Artificial Intelligence Era

Meena Kumari

Assistant Professor, Guru Brahmanand College of Education, Manchuri Nilokheri, Karnal, Haryana, India

Corresponding Author: * Meena kumari

DOI: <https://doi.org/10.5281/zenodo.19125462>

Abstract

Artificial Intelligence (AI) is rapidly transforming the educational landscape, bringing significant changes to teaching, learning, and teacher education. B.Ed. colleges, as key institutions for preparing future educators, must adapt to these technological advancements to remain relevant. This paper explores the future of B.Ed. colleges in the AI era, focusing on curriculum transformation, evolving teacher roles, integration of AI tools, and emerging opportunities and challenges. The study highlights the need for incorporating AI literacy, digital pedagogy, and ethical awareness into teacher education programs. It also emphasizes that while AI enhances efficiency and personalization in education, the human element of teaching—such as emotional intelligence and value-based guidance—remains irreplaceable. The paper concludes that B.Ed. colleges must adopt a balanced, hybrid approach combining technology and human interaction to prepare competent and future-ready teachers.

Manuscript Information

- ISSN No: 2584-184X
- Received: 20-01-2026
- Accepted: 25-02-2026
- Published: 20-03-2026
- MRR:4(3); 2026: 269-270
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- Plagiarism Checked: Yes
- Peer Review Process: Yes

How to Cite this Article

Kumari M. Future of B.Ed. colleges in the artificial intelligence era. Indian J Mod Res Rev. 2026;4(3): 269-270.

Access this Article Online



www.multiarticlesjournal.com

KEYWORDS: Artificial Intelligence, B.Ed. Colleges, Teacher Education, Digital Pedagogy, Future of Education, AI in Teaching, Educational Technology, Teacher Training, Smart Classrooms, Hybrid Learning.

INTRODUCTION

The integration of Artificial Intelligence (AI) into education is revolutionising traditional teaching-learning practices. B.Ed. colleges, which play a crucial role in shaping future teachers, are witnessing significant changes due to technological advancements. AI-powered tools such as adaptive learning systems, automated grading, and virtual classrooms are becoming integral parts of modern education. Therefore, it is essential to examine how B.Ed. Institutions will evolve in response to these developments

Transformation of the Teaching-Learning Process

AI has enabled personalised and student-centred learning experiences. In the future, B.Ed. colleges will train teachers to use AI-based tools for creating adaptive learning environments. These tools can analyze student performance and provide customized feedback, making learning more effective and engaging.

Curriculum Reforms in B.Ed. Colleges

The curriculum of B.Ed. programs must be updated to include AI-related competencies. This includes digital literacy, understanding AI tools, data-driven teaching strategies, and ethical use of technology. Such reforms will ensure that future teachers are well-equipped to handle technologically advanced classrooms.

Changing Role of Teachers

In the AI era, the role of teachers is shifting from information providers to facilitators and mentors. AI can handle repetitive tasks such as grading and content delivery, allowing teachers to focus on developing critical thinking, creativity, and emotional intelligence among students.

Opportunities for B.Ed. Colleges

AI offers numerous opportunities, including

- Enhanced teaching efficiency
- Global access to educational resources
- Improved student engagement through interactive tools
- Inclusive education for diverse learners
- These opportunities can significantly improve the quality of teacher education.
- Challenges and Concerns
- Despite its advantages, AI also presents several challenges:
- Lack of proper training for teachers
- Digital divide and infrastructure issues
- Risk of over-dependence on technology
- Ethical concerns and data privacy

Addressing these challenges is essential for the successful integration of AI in B.Ed. colleges.

Future Perspective: Hybrid Model

The future of B.Ed. Colleges lie in adopting a hybrid model that combines AI technology with human teaching. While AI enhances efficiency and personalisation, teachers provide

emotional support, moral guidance, and social interaction, which are essential for holistic development.

CONCLUSION

The future of B.Ed. colleges in the Artificial Intelligence era is dynamic and transformative. Institutions must embrace technological advancements while maintaining the human essence of teaching. By updating curriculum, enhancing teacher training, and adopting innovative practices, B.Ed. colleges can prepare educators who are capable of thriving in the AI-driven educational environment.

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