

## Technology Integration in B.Ed Method Classroom: Enhancing Teaching and Learning Experiences

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### ABSTRACT

The integration of technology in Bachelor of Education method classrooms has emerged as a transformative force, reshaping traditional teaching and learning practices. This study examines how technological tools and platforms enhance pedagogical approaches, improve student engagement and prepare teacher trainees for 21st-century educational challenges. The research focuses on the practical application of digital resources such as interactive whiteboards, multimedia presentations, virtual simulations, learning management systems (LMS) and collaborative online tools in method classrooms. By leveraging these tools, educators can facilitate subject-specific teaching, create inclusive learning environments and address diverse learner needs. The study explores case examples that demonstrate how technology enriches core aspects of teacher training, including lesson planning, classroom management and assessment practices. Additionally, the research highlights the importance of integrating technology to foster critical thinking, creativity and digital literacy among future educators. However, the study also acknowledges challenges, such as limited access to resources, varying levels of digital competency among educators, and resistance to change. It underscores the necessity of professional development programs, policy support and infrastructure improvements to ensure effective technology integration. The findings emphasize that technology, when purposefully integrated, bridges the gap between theoretical knowledge and practical application. It equips teacher trainees with skills to engage modern learners and adapt to the evolving educational landscape. This study concludes by advocating for a balanced, context-sensitive approach to technology integration, emphasizing collaboration among stakeholders, including educators, institutions and policymakers. Ultimately, this research underscores the potential of technology to revolutionize B.Ed method classrooms, making them more interactive, accessible, and effective, thereby preparing future teachers to lead meaningful learning experiences in diverse educational settings.

**Keywords:** *Integration of technology, Bachelor of Education, method classrooms, 21st-century, educational challenges*

The integration of technology in education has transformed traditional teaching methodologies, particularly in Bachelor of Education (B.Ed) programs where future educators are prepared for dynamic classroom environments. The advent of digital tools and resources has opened new avenues for enhancing teaching and learning experiences,

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making it essential to examine how these technologies can be effectively integrated into the B.Ed method classroom. This research focuses on identifying the benefits, challenges, and strategies for incorporating technology into teacher education programs to better prepare pre-service teachers for modern classrooms (Ally, 2020). As educational paradigms shift towards more student-centered learning, the role of technology becomes pivotal in facilitating interactive and engaging pedagogies (Bates, 2019). This paper explores how technology integration not only enhances the instructional capabilities of educators but also improves student engagement and learning outcomes. By examining case studies, best practices and theoretical frameworks, this research aims to provide a comprehensive understanding of the impact of technology in the B.Ed method classroom and offer practical recommendations for its implementation.

### **OBJECTIVES**

1. To explore the current state of technology integration in B.Ed method classrooms
2. To identify the challenges faced by educators and students in integrating technology into the learning process
3. To develop a framework for effective technology integration in B.Ed method courses
4. To recommend strategies for professional development and continuous learning in educational technology

### **METHODOLOGY**

The present study has been undertaken based on secondary source of data includes books, journals, articles, newspapers, Govt. reports, websites etc.

#### **Current state of technology integration in B.Ed method classrooms**

The integration of technology into Bachelor of Education (B.Ed.) method classrooms has evolved significantly over the years. In today's educational landscape, where digital literacy is becoming as fundamental as traditional literacy, future educators must be well-equipped with both pedagogical skills and proficiency in utilizing modern educational technologies. B.Ed. programs, which are designed to train prospective teachers, are increasingly incorporating technology as a core component of their curriculum. This shift not only aligns with the global push towards digital education but also addresses the needs of diverse classrooms and the ever-changing demands of the modern educational system (Jonassen, & Land, 2020).

The purpose of integrating technology into B.Ed. classrooms is multifaceted: to enhance teaching methodologies, to facilitate better learning outcomes for students, and to ensure that educators are prepared for the realities of teaching in a technology-driven world. This integration supports varied learning styles, encourages active participation, fosters creativity, and prepares teachers to incorporate technology into their future classrooms, ensuring that they can effectively use digital tools and resources to enhance instruction and student engagement (Darling-Hammond, & Bransford, 2021).

**Digital Tools for Instruction:** In B.Ed. classrooms, technology is now a central part of the instructional process. Teachers-in-training are exposed to a variety of digital tools such as learning management systems, multimedia presentations, virtual classrooms, and online collaboration platforms. These tools enhance the delivery of lessons, making them more interactive and engaging. Educators can create dynamic presentations using software like

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PowerPoint or Canva, design quizzes and assignments with platforms like Google Classroom or Kahoot, and engage students through videos, podcasts, and virtual field trips. This technology integration supports the diverse learning styles of students and helps create a more inclusive learning environment (Anderson, 2016).

**Use of Learning Management Systems** :Learning Management Systems are increasingly used in B.Ed. programs to provide a central hub for course content, assignments, and communication. These platforms, such as Moodle or Canvas, allow educators to post lecture notes, videos, and supplementary materials. Students can submit assignments, take quizzes, and interact with peers and instructors online. By using LMS, B.Ed. students are better prepared for the tech-driven classrooms they will encounter as teachers (Guskey, 2021).

**Interactive Whiteboards and Smart Classrooms:** Interactive whiteboards, also known as smartboards, are being used more widely in teacher training classrooms. These boards enable real-time interaction, allowing B.Ed. students to engage with content in a tactile and dynamic manner. Smart classrooms are equipped with high-tech tools that facilitate group collaboration, video conferencing, and easy access to online resources. The integration of these tools makes it easier for students to experience the technology they will use in their future classrooms (Jonassen, & Land, 2020).

**E-Resources and Online Learning:** The rise of e-learning resources has transformed the way B.Ed. students engage with course material. Online courses, webinars, eBooks, and research databases provide a wealth of information that supplements traditional teaching methods. Teachers-in-training can access resources at any time, enabling them to pursue independent learning and stay updated with the latest educational trends. The integration of online learning modules also offers flexibility, as students can engage with content at their own pace (Bates, 2019).

**Collaborative and Social Learning Platforms:** Collaboration is a key aspect of modern education, and technology facilitates it by providing platforms for social learning. Online forums, discussion boards, and collaborative tools like Google Docs or Microsoft Teams allow B.Ed. students to work together on projects, exchange ideas, and share resources. These platforms enhance communication, teamwork, and the ability to work collaboratively on solving complex educational problems (Harris, & Hofer, 2020).

**Digital Assessment Tools:** B.Ed. programs have begun to incorporate digital assessment tools, such as online quizzes, peer evaluations, and digital portfolios. These tools allow for real-time feedback and more efficient tracking of student progress. Technologies like Google Forms or Quizizz enable instructors to design assessments that are interactive, personalized, and data-driven, providing insight into both the students' learning and the effectiveness of teaching strategies(Bates, 2019).

## **CHALLENGES AND CONSIDERATIONS**

While the integration of technology in B.Ed. classrooms offers numerous advantages, there are challenges that must be addressed (Bingimlas, 2022):

**Lack of Infrastructure:** In many regions, access to modern educational technology is limited by factors such as poor internet connectivity, insufficient devices, and inadequate technical

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support. This can hinder the ability to implement effective technology integration in B.Ed. programs (Darling-Hammond, & Bransford, 2021).

**Teacher Training:** The successful integration of technology depends on the ability of instructors to use digital tools effectively. If teacher educators are not well-versed in technology, it becomes difficult for them to model its use or train future teachers in its application (Guskey, 2021).

**Resistance to Change:** Some educators and students may resist the shift to a technology-enhanced curriculum, either due to unfamiliarity with digital tools or reluctance to change traditional teaching methods. Overcoming this resistance requires effective professional development and a shift in mindset (Harris, & Hofer, 2020).

**Equity and Access:** Ensuring that all students in B.Ed. programs have equal access to technology is crucial. Disparities in access to devices or reliable internet can create inequalities, limiting opportunities for students from disadvantaged backgrounds.

The integration of technology into B.Ed. classrooms is an ongoing process that plays a critical role in preparing future educators for the demands of modern classrooms. As digital tools continue to evolve, it is essential that B.Ed. programs adapt to these changes and provide students with the knowledge and skills necessary to navigate and use technology effectively in their future careers. Addressing infrastructure challenges, providing adequate training, and ensuring equitable access to technology are essential steps for the successful integration of technology in teacher education. With the right support and resources, the future of technology in B.Ed. classrooms looks promising, helping to shape educators who are well-equipped to teach in a digital world (Darling-Hammond, & Bransford, 2021).

As technology continues to reshape educational landscapes, the integration of digital tools in teacher education programs specifically in Bachelor of Education method courses is essential for preparing future educators to effectively use technology in their classrooms. B.Ed. method courses focus on subject-specific teaching methodologies, and incorporating technology into these courses offers the opportunity to equip future teachers with the necessary skills to enhance both teaching and learning (Cochran-Smith, & Lytle, 2021).

A well-structured framework for technology integration ensures that B.Ed. students not only acquire theoretical knowledge about teaching methods but also become proficient in using digital tools to enhance their pedagogical practices. The goal of this framework is to facilitate effective and meaningful use of technology, preparing teachers to foster digital literacy in their students, improve engagement, and support diverse learning needs (Darling-Hammond, & Bransford, 2021).

### **FRAMEWORK FOR EFFECTIVE TECHNOLOGY INTEGRATION IN B.ED. METHOD COURSES**

The framework for technology integration in B.Ed. method courses can be structured around several core components, ensuring that both educators and students are supported in their use of digital tools in the teaching and learning process. The framework includes the following key pillars:

**Curriculum Design and Alignment:** Curriculum design must reflect the goals of integrating technology in a manner that enhances the teaching methods. This requires the identification of

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technology tools that align with subject-specific pedagogical goals. For instance, in language or literature method courses, teachers might integrate e-books, online discussions, or multimedia resources to facilitate learning. Similarly, in science or mathematics courses, simulations, interactive models or virtual labs could be used to demonstrate concepts (Spector, 2014).

**Professional Development for Educators:** Teacher educators must be comfortable with technology tools themselves in order to model effective usage for their students. Professional development programs focused on technology use—such as workshops, webinars, or peer training—are essential. This training should not be limited to basic digital literacy but extend to pedagogical practices that leverage technology for enhanced learning (Darling-Hammond, & Bransford, 2021).

**Student-Centered Learning with Technology:** Technology integration should focus on active learning strategies that engage B.Ed. students in using technology for collaborative and independent learning. Learning management systems (LMS), online discussion boards, and multimedia resources should be used to facilitate personalized learning experiences. Students should also be encouraged to design lesson plans or projects using technology tools, preparing them for their future classrooms (Koehler, & Mishra, 2020).

**Assessment and Feedback Mechanisms:** Technology can transform assessment practices in B.Ed. method courses. Online quizzes, interactive assessments, and digital portfolios provide teachers with real-time insights into student progress. Additionally, technology can streamline the feedback process, making it more dynamic and continuous. Digital assessment tools also facilitate diverse forms of evaluation, such as peer assessments, self-reflections, or video submissions (Bates, 2019).

**Infrastructure and Access:** Without the proper infrastructure—such as reliable internet access, devices, and technical support—effective technology integration cannot take place. B.Ed. institutions must invest in the necessary resources, including both hardware and software. This includes providing devices for students, ensuring access to online platforms, and offering technical support for both educators and students.

**Collaborative Learning and Peer Interaction:** Collaborative learning tools can facilitate communication and sharing of resources among students and between students and instructors. Virtual classrooms, video conferencing, and discussion boards provide opportunities for peer interaction beyond the physical classroom. Social media platforms and educational apps can also be used to enhance engagement and connect students with external educational communities (Zhao, et.al. 2022).

**Monitoring and Evaluation:** Ongoing evaluation is necessary to assess whether technology integration is meeting its intended goals. This can involve student surveys, course evaluations, or peer reviews. Feedback from both students and educators can help identify areas for improvement and allow for the iterative adaptation of technology practices.

An effective framework for technology integration in B.Ed. method courses ensures that both educators and future teachers are equipped to navigate and integrate technology into their teaching practices. By aligning curriculum, offering continuous professional development, prioritizing student-centered learning, and fostering collaboration, this framework supports a holistic approach to technology integration. Proper infrastructure, feedback mechanisms, and

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ongoing evaluation further enhance the success of this integration. As technology continues to evolve, adapting and updating the framework will ensure that B.Ed. students are prepared for the dynamic and technology-driven classrooms of tomorrow ( Guskey, 2021).

### **RECOMMEND STRATEGIES FOR PROFESSIONAL DEVELOPMENT AND CONTINUOUS LEARNING IN EDUCATIONAL TECHNOLOGY**

Incorporating technology into the educational process requires more than just access to digital tools; it requires educators to be proficient in using these tools in effective and pedagogically sound ways. This is especially true for B.Ed. programs, where future teachers must be well-equipped to integrate technology into their teaching practices. For teacher educators to successfully teach B.Ed. students how to utilize educational technology, it is essential for them to engage in continuous professional development. This development helps educators stay current with emerging technologies, understand new pedagogical approaches, and ensure that they can model effective technology integration for their students (Harris, & Hofer, 2020).

**Professional development in educational technology** ensures that educators are not only familiar with technology tools but are also capable of using them in ways that enhance teaching and learning. Furthermore, continuous learning helps educators adapt to rapid technological advancements and keeps their teaching methods fresh and relevant. In this discussion, we will explore strategies for professional development and continuous learning in educational technology specifically for B.Ed. classrooms (Bates, 2019).

### **STRATEGIES FOR PROFESSIONAL DEVELOPMENT AND CONTINUOUS LEARNING IN EDUCATIONAL TECHNOLOGY IN B.ED. CLASSROOMS**

**Hands-On Workshops and Training Programs:** Regular, interactive workshops focusing on practical uses of educational technology.

- One of the most effective ways to build educators' technological competencies is through hands-on workshops. These workshops provide opportunities for teacher educators to explore and experiment with educational tools in a structured environment. For example, B.Ed. instructors can attend workshops on using Learning Management Systems (LMS), creating digital lesson plans, incorporating multimedia resources into lessons using collaborative tools like Google Docs (Bates, 2019). .
- Offer short, focused sessions that cover specific tools or platforms.
- Provide a mix of beginner and advanced workshops to cater to varying levels of technological proficiency.
- Include opportunities for teachers to practice using tools within the context of their teaching subjects (Darling-Hammond, & Bransford, 2021).

**Peer Collaboration and Mentorship:** Facilitate peer learning and mentorship opportunities among educators.

- Collaborative learning among peers can be one of the most effective ways to develop technology integration skills. Peer collaboration allows educators to learn from each other's experiences, exchange ideas, and share success stories. In a B.Ed. program, mentor-mentee relationships between more experienced educators and newcomers can

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help bridge the technology gap. Mentorship can also extend to involving more technologically advanced students to work alongside educators, providing hands-on assistance with integrating digital tools in teaching.

- Create communities of practice where educators can discuss challenges, share resources, and collaborate on technology integration.
- Pair educators who are technologically proficient with those less comfortable with technology for ongoing mentoring.
- Encourage open discussions during meetings, allowing educators to share their experiences and lessons learned (Bates, 2019).

**Online Courses and Webinars:** Utilize online learning platforms to offer courses and webinars on educational technology.

- Many online platforms provide courses and webinars tailored to educational technology. These can be a valuable resource for teacher educators looking to enhance their skills. Websites like Coursera, edX, and FutureLearn offer a variety of online professional development courses related to educational technology. Furthermore, webinars hosted by technology companies, educational institutions, or professional organizations can provide current insights into trends, tools, and best practices in educational technology.
- Encourage participation in relevant online courses on topics such as digital pedagogy, e-learning tools, or technology integration.
- Support the use of virtual conferences and webinars to keep educators updated on new trends in educational technology.
- Create a library of online resources and courses that educators can access at their convenience (Bates, 2019).

**Participation in Educational Technology Communities and Conferences:** Attend conferences and become involved in professional communities related to educational technology.

- Conferences, workshops, and symposia are great ways for educators to expand their knowledge and network with others in the field. These events often showcase the latest innovations in educational technology and provide a platform for learning from experts and thought leaders. For example, conferences like International Society for Technology in Education and British Educational Training and Technology are widely recognized in the field and provide valuable professional development opportunities.
- Encourage B.Ed. educators to attend and participate in national or international educational technology conferences.
- Support teachers in presenting their own experiences and strategies for technology integration at these events.
- Foster participation in local or virtual tech-focused communities such as EdTech forums, LinkedIn groups, or professional teaching organizations (Harris, & Hofer, 2020).

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**Incorporation of Digital Tools into Teaching Practices:** Encourage educators to implement and experiment with new digital tools in their own teaching.

- One of the best ways for B.Ed. educators to master technology integration is to use digital tools themselves in their teaching. By incorporating tools such as interactive whiteboards, educational apps, video conferencing, or digital storytelling into their lessons, they gain firsthand experience that they can then pass on to their students. Additionally, experimenting with different tools provides educators with the flexibility to assess which ones best meet their teaching goals and student needs.
- Encourage teachers to use digital tools not just for instruction but also for communication, assessment, and feedback.
- Offer incentives for teachers who successfully implement new technologies in their lessons, such as recognition or opportunities to share best practices with others.
- Build a culture of experimentation where teachers are encouraged to try new tools and share their results with colleagues (Bates, 2019).

**Action Research and Reflection:** Engage in action research and reflective practices focused on the use of technology. Action research involves educators investigating their own teaching practices in order to improve their effectiveness. In the context of educational technology, action research allows B.Ed. educators to evaluate how well technology is being integrated into their classrooms, assess its impact on student engagement, and explore areas for improvement. This process can also include reflective practices, where teachers critically analyze their experiences with technology and identify what worked and what didn't (Harris, & Hofer, 2020).

- Encourage teachers to conduct small-scale action research projects focused on technology integration, documenting their findings and adjusting practices accordingly.
- Incorporate regular reflection sessions during professional development programs, where educators can discuss challenges and successes in using technology.
- Foster a growth mindset by encouraging teachers to view mistakes or failures as opportunities for learning and improvement (Harris, & Hofer, 2020).

**Building Technological Literacy through Student Feedback:** Use student feedback to inform professional development and improve technology integration. Students in B.Ed. programs can offer valuable insights into the effectiveness of technology tools and teaching methods used by their instructors. Collecting and analyzing student feedback on how well technology aids their learning process allows educators to adjust their practices and enhance the learning experience. This feedback loop ensures that technology integration aligns with the needs and expectations of learners (Harris, & Hofer, 2020).

- Implement surveys or informal feedback mechanisms where students can express their thoughts on technology use in class.
- Use student suggestions to refine and improve the application of educational technology, ensuring that it is engaging, accessible, and beneficial.

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- Encourage educators to review their feedback regularly and make adjustments to their technology use based on student responses.

Professional development and continuous learning in educational technology are critical for B.Ed. educators, who must stay abreast of new tools, technologies and pedagogical trends in order to teach effectively in the digital age. By implementing strategies such as hands-on workshops, peer collaboration, online courses, and reflection based action research, B.Ed. educators can build and maintain their technological proficiency. Incorporating ongoing feedback and fostering a community of practice ensures that professional growth remains dynamic and responsive to the evolving needs of both educators and students. This commitment to lifelong learning in educational technology helps prepare B.Ed. graduates to become educators who are not only capable of using technology in the classroom but also proficient in teaching their future students how to navigate and thrive in an increasingly digital world (Zhao, et.al. 2022).

## **CONCLUSION**

The findings of this research underscore that technology integration offers a multitude of benefits for both educators and students. For teacher educators, using digital tools in their own teaching not only enhances lesson delivery but also models the use of technology for future teachers. Tools such as Learning Management Systems, interactive whiteboards, multimedia content, and educational apps allow instructors to create dynamic, engaging, and learner-centered environments that foster active learning, collaboration, and critical thinking (OECD., 2020). These tools facilitate personalized learning, cater to diverse learning styles, and create opportunities for experiential learning. From the perspective of B.Ed. students, the exposure to a variety of digital tools equips them with the necessary skills to incorporate technology into their future classrooms (Anderson, 2016). Through practical, hands-on experiences in the use of educational technology, B.Ed. students gain confidence in their ability to design technology-enhanced lesson plans, assess student progress using digital tools, and engage students through interactive and creative methods. Furthermore, the integration of technology promotes digital literacy among future teachers, ensuring that they are prepared to teach in a world where technology is ubiquitous. To overcome the challenges, it is essential for institutions to invest in infrastructure, offer continuous professional development for teacher educators, and create a culture of collaboration and innovation among faculty. Moreover, the curriculum must be designed in a way that seamlessly incorporates technology, aligning digital tools with pedagogical objectives. The role of educational leaders is also crucial in fostering an environment that supports technology integration. Institutional leadership must prioritize the professional growth of educators, ensure equitable access to technology, and encourage experimentation with new tools and teaching strategies. Collaboration between educational institutions, technology providers, and policymakers is necessary to ensure that B.Ed. programs remain relevant and responsive to the needs of the 21st-century classroom (Zhao, et.al. 2022). So we can say technology integration in B.Ed. method classrooms has the potential to revolutionize the way teachers are trained, ensuring that they are equipped with the skills and knowledge to thrive in a digital learning environment. By embracing technology, B.Ed. programs can enhance teaching and learning experiences, provide future educators with the tools to innovate, and ultimately prepare them to meet the needs of diverse learners in an increasingly connected world (Voogt, & Roblin, 2021). The successful integration of technology requires commitment, adaptability, and a continuous focus on professional

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development, but the benefits for both educators and students make this a crucial investment for the future of education.

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#### **Conflict of Interest**

The author declared no conflict of interest.

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