

**INVESTIGATING THE IMPACT OF TECHNOLOGY ON
STUDENT LEARNING OUTCOMES IN ECONOMICS
EDUCATION (A CASE STUDY UNIVERSITY OF BENIN
ECONOMICS STUDENTS)**

BY

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UNIVERSITY OF BENIN
BENIN CITY**

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**A PROJECT SUBMITTED TO THE DEPARTMENT OF
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CERTIFICATION

We the undersigned names hereby certify that this research work was carried out by OFILI RACHEAL CHIZOBA with Matriculation Number: EDU2005638 the Department of Educational Management, Faculty of Education, University of Benin, Benin City in partial fulfilment of the requirements for the award of Bachelor Degree (B.Sc. Ed) Honours in Education Educational management EDM professional.

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DEDICATION

This project work is dedicated to God Almighty; to Him alone be all the glory, honour, adoration and praise for bringing me thus far.

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ABSTRACT

This study investigates the impact of technology integration on student learning in Economics Education university of Benin, three research questions were raised to guide the study. The study adopts survey research design. The instrument for the data collection was a questionnaire ,the sample for this study was 400 students selected from four departments; HSE, VTE, EECP, EDUCATIONAL MANAGEMENT. It was built around the research questions by the researcher and validated by the researcher’s supervisor. Data collected were analysed using mean and standard deviation.

It was concluded that technology plays a transformative role in education, fostering engaging learning experiences, promoting inclusivity, and bridging educational gaps. By addressing factors that influence technology adoption and ensuring equitable access for all students, technology can significantly enhance learning outcomes and create more equitable educational opportunities

Based on the findings, it was recommended that; Integrate technology into instruction to create interactive learning environments that cater to diverse learning styles and promote active participation. Provide students with training and support to build their confidence and competence in using technology effectively. Ensure equitable access to technology and reliable infrastructure for all students, including those in remote areas, with disabilities, and from low-income backgrounds.

CHAPTER ONE

INTRODUCTION

BACKGROUND OF THE STUDY

University students now have access to previously unheard-of options because of the revolution in higher education brought about by the integration of technology. Multimedia resources, online platforms, and digital tools have revolutionized the teaching-learning process.

According to Greenberg (2004) and Adedokun-shittu (2011), instead of evaluating the effectiveness of different technologies, it is better to find the ideal mix of all to achieve optimal learning outcomes for a specific audience. The education sector has also experienced this transformation, as the rapid evolution of technology such as internet access, mobile phones, and digital tools, has reshaped the learning landscape across all grade levels and educational institutions (Mangal and Mangal 2019). Through digital libraries, instructional apps, and online learning platforms, students now have unmatched access to knowledge and resources, alteringcc traditional methods. The

integration of technology has transformed teaching and learning. This introduction examines how educational technology can improve educational process, based on recent study findings.

It is imperative that schools have access to basic IT tools and computer facilities for student use, as the value of information technology in the teaching and learning process cannot be emphasized. All people in rich and poor countries alike utilize computers and information these days (Shue,2009). The internet is frequently used in education, giving pupils quick access to tools and information. The integration of communication technology into the educational process facilitates the comprehension of complex ideas. Investigating the impact of technology on student learning outcomes in economics education is a crucial and timely area of research. With the rapid advancement of technology, its integration into educational settings has become increasingly prevalent, influencing various aspects of the learning process. In the field of economics education at the University of Benin, the use of technology presents an intriguing case for examination. The integration of technology in economics education

has the potential to transform traditional teaching and learning methods, offering new opportunities for student engagement and knowledge acquisition

As information technology advances, computers may be used to teach economics -related subjects including population theories, statistics, consumer behavior theory, supply and demand theory, production theory and so forth. (O'Hara, Pritchard, & Bacon 2014). Technology's quick development has caused a major shift in higher education in the twenty-first century (Kozma, 2003). According to Means et al. (2010), the teaching-learning process has been redesigned by the widespread use of digital resources, websites, and multimedia resources, which has improved student involvement, accessibility, and efficiency.

Furthermore, understanding the impact of technology on student learning outcomes in economics education can contribute to the development of evidence-based strategies for educators and institutions. By evaluating the correlation between technology use and academic performance, this study intends to offer practical

recommendations for optimizing the integration of technology in economics education at the University of Benin

STATEMENT OF THE PROBLEM

Academic research on the consequences of technology has increased in recent years in education. Research has shown how incorporating mobile devices into the classroom can improve students' performance and learning experiences (Sung et al. 2016). Nevertheless, some academic have also experienced skepticism over the effectiveness of computer technology in raising student achievement (Schacter & Fagnano 1999). Although technology has enormous potential for education, it is yet unclear how it will actually affect students learning outcomes. Current research typically focuses on particular technological tools or platforms, creating a void in our knowledge of how advances in technology have affected learning outcomes for students overall. By offering a thorough analysis of the ways in which contemporary technology effects students learning outcomes, this study seeks to close this knowledge gap. The results of this study will help stakeholders in education, policymakers, and educators better

understand how technology should be used in classroom to improve instruction's efficacy and quality. By examining the many technological tools and platform used in educational settings and their impact on student's cognitive capacities and reliance on tech devices, this research seeks to investigate the impact of modern technology on student learning outcomes.

Additionally, it looks at how teachers and parents use these tools to enhance and support student's educational experiences. The study explores the effect these of contemporary technology on student learning outcomes, both positively and negatively, using data that is already available, literature, and a few instances from the real-world situations. It provides a comprehensive study that takes into account the viewpoints of parents, teachers, and students. People have always had profound curiosity for the world they live in, Because of this intense curiosity a number of formal educational systems, like Socrates and Plato's Academy and Modern schools and higher education, has been developed.

Some have contended that kids who use technology excessively are exposed to unfiltered information, which can result in disinformation, distraction, and poor efficiency in important courses. Conversely, there are many who argue that the incorporation of technology in education has resulted in increased academic achievement.

RESEARCH QUESTIONS

The following research questions are raised to guide the study;

1. How does the incorporation of technology integration affect the academic performance and involvement of university students ?
2. What factors influence student's adoption of technology?
3. How can technology enhance accessibility and equity in education?

OBJECTIVES OF THE STUDY

This study aims to investigate the impact of technology on university students, focusing on its effects on student learning outcomes and engagement. The study attempted to uncover recent trends and obstacles in the deployment of technology in education, such as the necessity for technical support and the possibilities for distraction during class. The findings revealed that technology-based education

improved student learning outcomes, such as learning outcomes, retention of material, and ability to think critically. This study seeks to investigate the impact of technology integration in the lives of students, their academic performance in Economics, identify challenges hindering effective technology integration, know the extent to which technology enhances students cognitive skills and behaviour and how best to limit it.

Furthermore, the usage of technology in education enhances student involvement and motivation while also improving teacher-student interaction.

SIGNIFICANCE OF THE STUDY

This study focus on how students' involvement and success in their academics are affected by the inclusion of technology. Education experts, students, and curriculum developers should all benefit from the inclusion of technology in education.

In order to improve students learning in terms of cognitive and social skills, and attitude towards their various field in school, it is necessary to strengthen technology integration. Its looks at the effect and

influence of incorporating technology in the lives of students, parents, teachers, etc as well as exploring the benefits of technology.

It explains how digital technology has sharpened the lives of students in the classroom by making lessons more engaging and interesting. It shows the ways in which technology can be used in the university settings. It also discussed key advantages and disadvantages of incorporating technology in this present age.

This study adds to the body of knowledge already available in educational technology by examining the effects of incorporating technology on college students, instructors, and policymakers. Additionally, the study will shed light on successful methods of technology integration (Bransford et al., 2000).

SCOPE AND DELIMITATION OF THE STUDY

The scope of this study covers university of Benin, economics education students in order to determine the impact of technology integration on academic achievement and performance.

DEFINATION OF TERMS

1. Technology integration in education: is the process of inquiring and determining which digital tools and methods are most appropriate to implement in a given classroom setting. It focuses on evaluating the impact of technology in teaching and learning to attain educational goals.
2. Communication technology: it enables electronic exchange of information through internet, media, and digital platforms, facilitating global connectivity and interaction instantly worldwide.
3. Cognitive skills: it encompasses mental processes for information processing, problem-solving, critical thinking, memory, attention, and effective communication and learning abilities.

CHAPTER TWO

REVIEW OF RELATED LITERATURE

This chapter deals with the review of related literature under the following subheadings;

- CONCEPT OF TECHNOLOGY
- HOW CAN TECHNOLOGY ENHANCE ACCESSIBILITY AND EQUITY IN EDUCATION
- WHAT FACTORS INFLUENCE STUDENTS ADOPTION OF TECHNOLOGY
- HOW DOES TECHNOLOGY INTEGRATION IMPACT STUDENTS LEARNING OUTCOMES
- SUMMARY OF REVIEW LITERATURE

Concept Of Technology

A combination of technique and product employed in the utilization of knowledge. Technology is the field of study that deals with making tools, processing activities, and obtaining materials (Christopher Lloyd .M.). Technology used to access and promote education is

categorised as education technology. This can include the technology, software, and other relevant tools that teachers and students utilise in the classroom. Technology is used in the classroom by both teachers and students in a variety of ways to improve learning and make education more sophisticated than before. Technology integration is the process of combining many technological tools and systems to make them work as a single, integrated whole (Zhang et al, 2008). Having cutting-edge tools isn't enough; you also need to make sure they complement one another's advantages. The practice of integrating technology into various aspects of work and learning environments is known as technology integration. It entails utilising technology, including computers, smartphones, and the internet, to improve instruction, learning, and efficiency. Through creative tools, digital resources, and interactive platforms, technology is revolutionising education. Technology is a collection of ideas and information utilised to accomplish a certain goal that results in the resolution of a particular issue facing the person or the fulfilment of some of their demands (Kamran Sharief, 2023). Applying scientific knowledge to

develop useful tools, processes, and solutions that enhance human existence is referred to as technology. In order to facilitate effective communication, information processing, and innovation, it includes digital devices, software, hardware, and infrastructure. Technology is revolutionising industries, education, and everyday life by increasing productivity, connectivity, and accessibility. As technology advances from basic calculators to sophisticated artificial intelligence, it shapes contemporary culture and redefines how people communicate, work, and live. Though mechanical technology is simple, it has allowed for extremely important advancements in the human experience (Aiden Ford, et al 2023). In order to provide worldwide connectivity and communication, it includes the design, development, and use of digital devices, software, hardware, and infrastructure. Technology changes social dynamics, revolutionises education, and changes industries. It promotes economic growth, influences environmental sustainability, and enhances healthcare outcomes. Technology is developing at an ever-increasing rate, redefining human potential and influencing the future. The effects of technology are numerous and affect every part

of contemporary life. Technology" conjures up images of a variety of gadgets, including tablets, phones, and computers (David wood, 2023). Online courses, collaborative software, and virtual classrooms enable worldwide connections and individualised education. Science, art, and engineering are all combined in technology to change the way that education is delivered, increase knowledge, and prepare students for success in the digital .

Technology dependence also increases the risks of distraction since students may become sidetracked from their current duties by using several tabs, social media notification, and instant messaging. According to research, students who use technology to study may find it hard to concentrate and retain the material (Rossen et al. 2013).

The development of technology was significantly expedited in the 1990s by the internet. It became feasible to communicate instantaneously and gain access to a wealth of knowledge and information. Another important development is the advantage of artificial intelligence (AI) in education.

HOW CAN TECHNOLOGY ENHANCE ACCESSIBILITY AND EQUITY IN EDUCATION.

According to studies, using instructional technology improves students' motivation and participation in the learning process overall (Mo, 2011). It is impossible to overestimate how much technology affects kids' academic achievement and the efficacy of teachers (Laura, 2023). University students that use technology have better learning experiences, are more accessible, and are more engaged. It encourages teamwork, critical thinking, and the ability to solve problems. Additionally, technology facilitates communication, encourages flexibility, and offers immediate access to resources. However, too much screen time and digital distractions can harm social interactions and mental health, so moderation and careful use are necessary. Too much reliance on technology, both teachers and students have suffered greatly as a result of educational practices, which should be examined to prevent further harm. Among the many impacts that should be watched out for, ten will be discussed. They are as follows:

1. Abuse and distractions.
2. Cyber violence.
3. Adaptive learning.
4. Enhanced learning experience.
5. Decreased attention span.
6. Improved research skills.
7. Develop accountability and digital understanding.
8. Encourage balance between tech and traditional learning methods.
9. Better learning outcomes and increased student engagement.
10. An increase in productivity and efficiency

1. **ABUSE AND DISTRACTIONS:** Student education is harmed by excessive technology use, which can result in distractions, cyber bullying, poorer results, and mental health issues. For the best academic results, strike a balance between conventional learning and technology use. University students' usage of technology can have negative consequences, especially when it comes to misuse and distraction. Overuse of screens and

continual connectedness can result in addiction, shorten attention spans, and impair interpersonal communication abilities. Students' safety and emotional health are also seriously jeopardised by cyber bullying, online abuse, and digital exploitation (Jorge Gabriel, 2024). Furthermore, the widespread use of technology might encourage diversions, impairing concentration and productivity in the classroom. The continual competition for attention from social media, email, and text messages interrupts study sessions and lowers academic achievement(Chris Vallance, et al 2023). This problem is made worse by the fuzziness of the boundaries between personal and academic internet activities. Furthermore, the continual stimulation and rapid pleasure provided by technology might encourage unhealthy coping strategies like escape and procrastination. Unrestrained use of technology degraded education by causing anxiety, distractions, and a decline in academic performance; the keys to maximising academic potential are digital literacy, balanced integration, and

thoughtful use. While excessive use of technology clouds kids' minds and hinders their ability to think critically, be creative, and advance academically, responsible tech use re-energizes learning, encourages participation, and develops 21st-century skills.

- 2. CYBER VIOLENCE:** Since students are exposed to everything in this day of computers and networks that are dependent on the internet, we can also claim that it is not that difficult to defraud someone. By encouraging anxiety, depression, and poor academic performance, cyber violence endangers students' educational wellbeing(Ritik Agrawal, 2024). Online bullying, harassment, and exploitation damage learning settings by undermining self-worth and trust. Schools must put strong cyber safety regulations into place, teach pupils digital citizenship, and offer support services in order to lessen the negative effects of technology and guarantee a welcoming, safe learning environment(Ritik Agrawal, 2024). Cyberviolence puts students' academic health at risk by sustaining anxiety,

depression, and poor academic achievement. The disruption of learning environments caused by online harassment and exploitation undermines self-esteem and trust. To lessen the negative effects of technology and provide a secure, welcoming environment where children may succeed academically, strong cyber safety regulations, instruction in digital citizenship, and support services are essential.

3. **ADAPTIVE LEARNING:** Rather than implementing a curriculum that is one-size-fits-all, adaptive learning is a component of interactive learning that takes into account the needs of each individual through learning paths, useful feedback, and additional resources (Kurt, 2021). Adaptive learning is actually now a core component of the curriculum. Learning that adapts will be even more crucial as technologies advance and a variety of demands emerge in order to guarantee that every student receives what they require while providing teachers with the authority and assistance they require. Education is being revolutionised by adaptive learning technology, which adapts

instruction to the requirements, skills, and learning preferences of each individual student(Dr. Shujie Chen, 2023). This increases student involvement, enhances results, and gives teachers the ability to maximise individualised education. Targeted interventions made possible by real-time feedback and data analytics fill in knowledge gaps and help students reach their greatest potential for both academic success and lifetime learning.

4. ENHANCED LEARNING EXPERIENCE: Lessons are made more dynamic and interesting by accommodating a variety of learning styles using educational apps, internet resources, and adaptive learning systems. By addressing each student's unique needs, this personalization promotes flexible study and a deeper comprehension of the material(Kurts, 2013). The typical classroom has undergone a transformation because of the incorporation of technology, which promotes dynamic, cooperative, and captivating learning opportunities. University students benefit from an improved educational experience

because to technology integration. Through hands-on learning through interactive digital content, simulations, and virtual labs, difficult subjects become more interesting and approachable. Online platforms allow for feedback and cooperation, while adaptive learning systems customise instruction to meet the needs of each individual. Tools for real-time data analysis and visualisation enhance comprehension, while virtual reality puts pupils in authentic situations. Students are better prepared for success in an increasingly digital world thanks to this technology-rich environment, which encourages active learning, critical thinking, and creativity (Ellis , 2009). This article examines the value of technology in the classroom and how it affects the process of learning. With its immersive simulations, interactive participation, and real-time feedback, education technology improves learning for students of all skill levels and promotes deeper knowledge, better retention, and higher academic outcomes.

5. DECREASED ATTENTION SPAN: It is well known that students' focus durations have been gradually eroding, particularly for younger generations who are surrounded by digital technology. The way that children learn and retain knowledge in the classroom is significantly impacted by this sharp decline in attention span(William.R. 2018). Technology shortens kids' attention spans, which impairs their academic performance. University students' attention spans have gotten shorter as a result of their widespread usage of technology. Frequent notifications and continuous exposure to bite-sized digital content train pupils to focus for little periods of time before switching to other things. This disjointed focus impairs retention, critical thinking, and in-depth learning. Academic performance may suffer as a result of students' inability to follow lengthy texts, lectures, or difficult subjects (Volman .M. 2013). Teachers must modify their teaching strategies to account for this change, adding dynamic and interactive components to keep students interested and promote

worthwhile learning opportunities. Young minds are rewired by constant digital distractions, rapid gratification, and information overload, which impairs focus and memory. To counteract this worrying trend, educators must strike a balance between integrating technology with mindfulness exercises, promoting appropriate tech use, and creating dynamic, engaging learning environments.

- 6. IMPROVED RESEARCH SKILLS:** Students can use a variety of technical tools and platforms to greatly improve their research skills. Technology integration in education promotes collaborative learning environments in addition to making information more accessible. Students are exposed to various journals, e-books, textbooks, articles, etc that can be used to answer a variety of research questions thereby improving research skill within a limited period of time. Students are equipped with sophisticated research abilities thanks to technology, which makes accessing a wealth of information simple. Media literacy, effective search techniques, and critical

thinking are all taught via digital platforms(Hobbs .R. 2013). Technology has greatly improved university students' ability to conduct research. Students have unmatched access to academic databases, digital libraries, and internet resources, enabling them to find pertinent information quickly. Sophisticated search tools and filters facilitate accurate querying, while citation management software simplifies reference and organisation(Tarmim .R. M. ,2011). Online collaboration tools promote international relationships and a diversity of viewpoints and thoughts. Furthermore, students can produce high-quality research and academic work by using digital tools for data analysis, visualisation, and simulation, which encourage critical thinking and in-depth study. Academic databases and internet tools enable in-depth investigation, stimulating curiosity and developing critical thinking skills. Teachers assist students in efficiently navigating, assessing, and synthesising knowledge.

7. DEVELOP ACCOUNTABILITY AND DIGITAL UNDERSTANDING:

8. According to the research, technology opens up more opportunities than ever before for citizen participation and information access through online platforms, allowing for real-time communications and feedback between users and education providers(Ellis, 2009). Advances in technology and the increased accessibility of gadgets like cameras, tablets, and cellphones have made it easier for communities to hold educators accountable. Technology integration fosters accountability and digital citizenship among university students. Online systems monitor development and allow for self-reflection. Digital tools help you organise, manage your time, and create goals. Students learn to critically analyse internet sources, including reliability and bias. They learn courteous communication and dispute resolution skills through online discussions. Furthermore, digital citizenship education focusses on responsible technology use, cyber safety, and data privacy,

preparing students to navigate the digital realm responsibly and ethically(Kurts, 2018). This encourages a culture of accountability and digital literacy. One way that technology can improve accountability in education is by enabling citizens to voice their opinions about how satisfied they are with the educational system. By incorporating technology, students develop digital literacy and accountability. Students are empowered by their teachers to use online resources ethically, assess material critically, and protect their digital footprints. Students gain vital skills to navigate online spaces, nurture moral behaviour, and capitalise on technology's promise for both academic success and lifelong learning through guided digital citizenship(Zhang, et al, 2008).

- 9. ENCOURAGE BALANCE BETWEEN TECH AND TRADITIONAL LEARNING METHODS:** Combining technological integration with conventional teaching techniques is a balanced approach. Instructors can use technology to create multimedia presentations, conduct in-person lectures, and use

online resources to enhance learning. In order to provide the greatest educational experience, we keep abreast of emerging technology and make sure that our teachers use and incorporate digital learning resources to enhance conventional teaching techniques. This enables our teachers to improve classroom engagement and address the demands of contemporary learners(Waston .J. 2007). Traditional teaching approaches and technology integration should be balanced in universities. Combining digital resources with in-person lectures, practical exercises, and printed materials encourages a well-rounded education. Effective communication, creativity, and critical thinking are encouraged by this well-rounded strategy. While technology improves efficiency and accessibility, conventional approaches offer human engagement, context, and depth. By finding a balance, teachers can take use of each of their talents and produce inclusive, meaningful, and engaging learning experiences that set students up for success in a world that is changing quickly (Maton .k. 2010). This hybrid strategy

maximises lifetime learning and student outcomes. Additionally, your child's learning outcomes and academic achievement are maximised when technology and traditional teaching methods are combined. Traditional teaching methods and technology are balanced in effective schooling. Teachers combine internet resources with in-person lectures, group discussions, and practical exercises. This hybrid method cultivates critical thinking, deep comprehension, and the development of critical abilities. Students gain from both worlds and are better prepared for success when technology is used with traditional educational methods.

10. BETTER LEARNING OUTCOMES AND INCREASED STUDENT ENGAGEMENT: Technology transforms the educational process, increasing student involvement and producing better results in academic contexts(Abrami .p. , 2011). Online platforms let students collaborate and communicate, while interactive tools and multimedia resources attract pupils. Timely interventions are made possible by real-

time feedback and evaluation technologies, while individualised learning pathways accommodate a range of demands. This technology-driven method encourages active learning, inspires students, and gives them the tools they need to succeed in the digital world. Higher student engagement and improved learning outcomes are the results of integrating technology. Personalised learning pathways and adaptive assessments improve comprehension and retention, while interactive digital content makes difficult ideas more approachable and pleasurable. Students are motivated by real-time feedback, which encourages creativity, critical thinking, and active learning (Kurper .p. 2013). This technologically advanced setting improves academic achievement, self-esteem, and contentment. Teachers observe increased student engagement, excitement, and performance, which results in more efficient instruction. Technology integration driven by students transforms education by fostering a vibrant, welcoming, and encouraging learning environment. Students gain vital abilities, information, and

attitudes as a result, setting them up for success in a world that is becoming more digital and linked by the day.

11. AN INCREASE IN PRODUCTIVITY : Automating grading and record-keeping systems and streamlining administrative activities are two benefits of technology integration in colleges. Online course delivery and virtual learning environments provide accessibility and flexibility. While data analytics helps guide decision-making, digital libraries and research databases offer immediate access to resources (Koehler, 2013). Through process optimisation and paperwork reduction, technology increases institutional performance by freeing up resources for strategic projects. Universities are able to concentrate on student achievement, academic quality, and innovation as a result. One important effect of integrating technology in higher education is an increase in efficiency and productivity. Digital tools improve organisation, automate procedures, and expedite work so that teachers and students can access materials, work together, and handle assignments more skillfully (Zhang et al,

2004). They are able to concentrate on higher order thinking, creativity, and invention. In addition to producing cost savings, technology maximises time and resources to support research, academic excellence, and institutional performance(Terry.m., 2018). In general, the incorporation of technology creates an academic environment that is more successful, productive, and efficient. Universities are becoming more productive as a result of technology integration, which is also changing how staff and students work. Efficient digital workflows facilitate rapid feedback, easy collaboration, and smooth information sharing. By removing administrative duties, automated procedures open up time for creativity and strategic thinking. Students can learn whenever and wherever they want with resources and tools available around-the-clock. Teachers are able to monitor student progress, adjust their lessons to meet their requirements, and act quickly. Analytics using real-time data help make better decisions, allocate resources more efficiently, and enhance student performance (Tarmim .R. 2017). Technology promotes

interdisciplinary cooperation, worldwide connections, and ongoing learning by overcoming geographical and temporal barriers. Universities are better equipped to meet their objectives in research, education, and community involvement thanks to the ensuing productivity increases.

WHAT FACTORS INFLUENCE STUDENTS ADOPTION OF TECHNOLOGY

Integrating instructional methodologies with technology is becoming more and more crucial in today's educational environment, when technology plays such a crucial role. The results show that students have favourable opinions about the use of technology in learning procedures. They think that integrating technology into the classroom helps them improve their teaching methods, keep students motivated, and make the learning experience engaging. In education programs, technology integration refers to the use of technological tools and resources in curriculum and instructional practices. The use of technology in the classroom changes how teachers deliver lessons

and increases student involvement. Digital tools make collaborative settings, real-time feedback, and personalised learning possible. In order to assess student progress, encourage active learning, and differentiate instruction, teachers use technology (Bolman, 2009). By revitalising instructional approaches, this smooth integration of instructional technology improves student results and educator efficacy. Student can boost students' learning with the help of modern technology, educators can improve their method of instruction by utilising technological tools. Classroom learning can benefit from competition and variation, which can boost students' motivation and engagement. Student also gain from the numerous professional development opportunities and online resources made available by platforms such as coursera and edutopia. To help learners improve their methods and remain current with me development in education, its platforms provide the workshop causes and other materials (Ferri et al. 2020). By improving class delivery, student engagement, and assessment, technology integration changes the way teachers teach. It makes collaborative settings, real-time feedback, and personalised

learning easier. Teachers can now: Make use of interactive multimedia tools. Use data analytics to inform instruction and cultivate online communities and dialogues. Use simulations and gamification. Make educational resources easily available. This integration empowers teachers to design dynamic, student-centred learning experiences while fostering innovative pedagogy, increasing efficiency, and improving student results(Dziubam, 2018). When technology is incorporated into the classroom, traditional lectures give way to interactive, student-centered methods. Teachers increasingly support personalised education, flipped classrooms, and collaborative learning. Real-time feedback, virtual field trips, and multimedia presentations are made possible by digital tools. Academic results, motivation, and engagement are all improved by this. By accommodating different learning styles, educators create a more dynamic and inclusive learning environment. Student learning methods are revolutionised by technology integration, which makes it possible for: smooth upgrades and integration of content automated systems for feedback and grading Virtual field tours and presentations by guests Multimedia

presentations and interactive whiteboards Analytics and education based on data This improves student motivation, engagement, and results(William, 2017). Teachers may now accommodate different learning styles, encourage teamwork, and concentrate on mentoring. With the help of technology, teachers can design engaging, inclusive, and productive learning environments that inspire kids to love learning and get ready for a world that is changing quickly.

Notwithstanding, learners face challenges when integrating technology into the classroom. A notable obstacle is digital divide whereby children in underserved communities have different levels of access to technology, possibly jeopardising the efficacy of technology integrated learning in children (Warschauer & Matuchniak, 2010).

Some of the effects may include;

1. A shift from teacher-centred method to student-centred method:

Teachers are prompted by technology integration to shift from teacher-centered education to collaborative, student-centered, and self-directed learning strategies.

2. It enhances teacher-student relationship through digital communication: Through prompt interactions, individualised support, and more accessibility, digital communication tools strengthen the bonds between teachers and students while fostering mutual respect and understanding.
3. Increased accessibility to digital resources: Students can instantly access a variety of digital materials, such as e-books, online libraries, and educational databases, from any location thanks to technology integration.
4. Virtual learning environment: Virtual learning environments offer interactive online venues where students can connect with peers, teachers, and courses from a distance.
5. Increased focus on critical thinking and problem-solving: Through interactive simulations, real-world applications, and cooperative project-based learning opportunities, technology integration fosters critical thinking and problem-solving abilities.

6. Preparing for a future career in a technology driven world:
Education technology helps students develop the critical abilities of digital literacy, creativity, and flexibility, preparing them for a dynamic, tech-driven workforce.
7. Time management: With the use of digital calendars, reminders, and task management applications and tools, technology integration helps students learn efficient time management techniques.
8. Enhance student engagement: Games, multimedia content, and interactive technological tools increase student motivation, engagement, and participation while creating an immersive and pleasurable learning environment.
9. Enhance collaboration and teamwork: Students can collaborate, exchange ideas, and hone critical communication and collaboration skills thanks to digital tools that support collaborative learning.
10. Develop growth mindset: Through adaptive challenges, self-evaluation, and feedback, technology-enhanced learning

cultivates a growth mindset that encourages resiliency, persistence, and ongoing progress.

11. Increased global awareness: Students are better prepared for an interconnected world through the use of digital resources and online partnerships, which expand their global perspectives, cultural awareness, and international relationships.

12. Develop digital citizenship skills: Education technology teaches students digital citizenship skills, including online safety, etiquette, responsibility, and media literacy for informed online engagement.

HOW DOES TECHNOLOGY INTEGRATION IMPACT STUDENTS LEARNING OUTCOMES

How easily people may obtain the resources and skills they require to achieve is referred to as accessibility. Since every student in higher education has different needs and requirements, access can take many different forms. Therefore, although technology may be able to prepare students for every scenario, they still need to be able to use it in the real world when it is not present(Kuiper, 2013). Colleges need

to strike a balance between ensuring that students are proficient with technology and promoting social interactions that will enable them to effectively express their ideas and opinions. The proper use of media is essential, and student outcomes must reflect this, since edtech integration in higher education has been shown to boost student engagement by 55%. Higher education uses technology in many areas, transforming administrative, instructional, and learning procedures. Through the use of several digital tools and platforms, technology also improves interaction and engagement during the learning process. Students and teachers can collaborate and communicate both synchronously and asynchronously with the use of online collaboration tools including group project management platforms, discussion boards, and video conferencing software. Zhang et al. (2004) found that in online learning environments that prioritise learner-centred activities and social presence, remote learners frequently achieve higher learning outcomes than their traditional counterparts. Technology adoption is more likely among faculty and students when instructors view it as a tool to help higher education

accomplish its function in society through overcoming time and space constraints rather than as a challenge to the status quo (Ellis et al. 2009).

SUMMARY OF REVIEW LITERATURE

We explored the revolutionary potential of educational technology and its extensive influence on teaching methods, learning objectives, and the educational environment. Teachers can improve their research abilities, encourage teamwork, and modify their lessons to fit the needs of each student by incorporating technology. But issues like short attention spans, the digital divide, and worries about online safety demand careful application. It's critical to strike a balance between using technology and conventional teaching techniques and to help pupils develop digital literacy and responsibility. Teaching is transformed by effective integration, which fosters critical thinking, problem-solving, and student-centered learning. To fully utilise technology, educators must place a high priority on professional development, continuous assessment, and infrastructural support. In

the end, a technologically advanced education equips students for success in a world that is changing quickly. Through embracing innovation and tackling obstacles, educators can realise their greatest potential in education. technology's effects on education, with an emphasis on many facets of educational technology. We investigated the effects of technology integration on learning outcomes, student engagement, and teaching styles. For learning to be effective, technology utilisation and conventional teaching techniques must be balanced. the requirement that teachers help kids achieve digital literacy and responsibility. the advantages of technological integration, including better teamwork, more individualised instruction, and greater research abilities. reduced attention span, the digital gap, and worries about online safety are some of the difficulties that come with integrating technology. University technology integration improves research abilities, digital citizenship, and learning experiences. But there are drawbacks as well, such as a shorter attention span. Teachers can lessen this by encouraging critical thinking, creativity, and interpersonal engagement while balancing technology with more

conventional approaches. By encouraging accountability, time management, and lifelong learning, a hybrid approach maximises student outcomes. Universities can give students a well-rounded education that equips them for success in a world that is changing quickly by utilising technology's advantages while tackling its disadvantages. Our conversation focused on educational technology and examined how it affects instructional methods and student learning objectives. Incorporating technology improves research abilities, teamwork, and customisation, but it also presents drawbacks including attention span reduction, the digital divide, and worries about online safety. Using technology and conventional approaches in balance is essential. Students need to be taught digital literacy and responsibility by their teachers. By encouraging student-centered learning, critical thinking, and problem-solving, effective integration revolutionises the classroom. Technology has enormous potential to transform education, notwithstanding obstacles. Harnessing its benefits and preparing students for success in a world driven by technology and changing quickly requires careful implementation and

continuous evaluation. All things considered, our discussion demonstrated how educational technology may be revolutionary when used carefully and sensibly

CHAPTER THREE METHODOLOGY

This section outlines the methods and procedures employed to investigate the impact of technology integration on students learning outcomes in economics education, a case study university of Benin education students. They include;

- RESEARCH QUESTIONS
- POPULATION OF THE STUDY
- SAMPLE AND SAMPLING TECHNIQUES
- RESEARCH INSTRUMENT
- VALIDITY OF THE RESEARCH INSTRUMENT
- RELIABILITY OF THE RESEARCH INSTRUMENT
- METHOD OF DATA COLLECTION
- METHOD OF DATA ANALYSIS

RESEARCH DESIGN

The research study design was survey-based. This was appropriate because survey research design enables the investigator to describe certain variables in relation to a certain population.

POPULATION OF THE STUDY

The population of this study comprises of 2000 students from four departments in Faculty of Education, this comprises of Educational Management, EECP, HSE and DEF of the university of Benin.

SAMPLE AND SAMPLING TECHNIQUES

The sample size of the study was 20 percent of the entire population of the students in the University of Benin (economics education) as a case study, four hundred students(400).

RESEARCH INSTRUMENT

The instrument for data collection was a structured questionnaire of 15 items, which will be titled “impact of technology integration in university of benin students”. The researcher made use of the research questions to develop the questionnaire to collect information about the attitudes, opinions, and experiences of economics students with regard to technology integration.

The questionnaire will be divided into two sections, A and B. Section A will contain information on the demographic data. Section B will consist of items eliciting responses on their Perceived impact of

technology integration on university of Benin economics education students. The items will be structured in Likert modified four points scale with response pattern as detailed below;

11. Strongly Agree - 4 points
12. Agree - 3 points
13. Disagree - 2 points
14. Strongly Disagree – 1 point

VALIDITY OF THE RESEARCH INSTRUMENT

Validity refers to the extent to which an instrument measures what it is intended to measure. The instrument will be validated by the researcher's supervisor, two experts in economics education and two experts in educational technology, faculty of education.

RELIABILITY OF THE RESEARCH INSTRUMENT

The test-retest reliability approach was employed to determine the instrument's reliability. An initial administration of the instrument to twenty (20) respondents selected from the same population will

accomplish this. The same responders would be given the same instrument again after two weeks.

METHOD OF DATA COLLECTION

The questionnaire was administered to the selected respondent by the researcher. Those randomly selected were given the questionnaire and be guided on how to answer correctly. The instrument collected by the researcher after the respondent successfully answered the questions.

METHOD OF DATA ANALYSIS

The data was analysed in the following manner: all research questions will be evaluated using mean scores and standard deviation. A mean value of 2.50 or above will be read as 'agree', while a mean score of less than 2.50 will be interpreted as 'disagree'. This was determined using the foot point modified Likert scale options of;

12. Strongly Agree (SA)=4 points

13. Agree (A)=3 points

14. Disagree (D)=2 points

15. Strongly Disagree (SD)=1 point.

The average of this will provide $4+3+2+1/4; 10/4 = 2.50$.

CHAPTER FOUR

PRESENTATION OF RESULTS AND DISCUSSION OF FINDINGS

This chapter focused on the presentation of results collected from the investigation. The findings are also discussed. The analyses were also done with the demographic data of the respondents and the research questions examined.

Question 1: How Does Technology Integration Impact Students' Learning Outcomes?

Table 1: Distribution of Responses on How Technology Integration Impact Students' Learning Outcomes

	ITEMS	N	Mean Score	Remark
1.	Technology integration has made learning more engaging and interactive, leading to better student participation	400	3.18	Agree
2.	It allows students to access a wide variety of resources that support diverse learning styles	400	2.57	Agree
3.	it enhances their understanding by allowing practical, hands-on activities and simulations.	400	1.79	Disagree
4.	By using technology, students can work at their own pace and review difficult concepts as needed	400	3.15	Agree
5.	Integrating technology helps students develop critical thinking and problem-solving skills through interactive and collaborative learning environments.	400	2.93	Agree

Criterion Mean: 2.50

Source: Field Survey, 2024

The data in Table 1 above shows that items 1, 2, 4 and 5 met the mean score standard of 2.50 and, therefore, were agreed. Item 3 did not meet the mean score standard of 2.50 and, therefore, were disagreed. This revealed that Technology integration has made learning more engaging and interactive, leading to better student participation. It was seen that it allows students to access a wide variety of resources that support diverse learning styles. it was shown that it enhances their understanding by allowing practical, hands-on activities and simulations. It was seen that by using technology, students can work at their own pace and review difficult concepts as needed. It was revealed that Integrating technology helps students develop critical thinking and problem-solving skills through interactive and collaborative learning environments.

Question 2: What Factors Influence Students' Adoption of Technology?

Table 2: Factors that Influence Students' Adoption of Technology

ITEMS	N	Mean Score	Remark
1. Student's is more likely to adopt technology when they feel confident in using it effectively.	400	2.54	Agree
2. Students are more inclined to use technology if they feel supported and provided with adequate resources.	400	2.62	Agree
3. Students' personal beliefs about technology's effectiveness impact adoption rates.	400	2.59	Agree
4. Time constraints and workload affect students' willingness to adopt technology.	400	3.25	Agree
5. Availability of reliable infrastructure, like fast internet and functioning devices, influences teachers' decisions to adopt technology.	400	3.18	Agree

Criterion Mean: 2.50

Source: Field Survey, 2024.

The data in Table 2 above shows that items 1, 2, 3, 4 and 5 met the mean score standard of 2.50 and, therefore, were all agreed. This revealed that Student's is more likely to adopt technology when they feel confident in using it effectively. It was seen that Students are more inclined to use technology if they feel supported and provided with adequate resources. it was shown that Students' personal beliefs about technology's effectiveness impact adoption rates. It was seen that Time constraints and workload affect students' willingness to adopt technology. It was revealed that Availability of reliable

infrastructure, like fast internet and functioning devices, influences teachers' decisions to adopt technology.

Question 3: How can technology enhance accessibility and equity in education?

Table 3: How Technology Enhance Accessibility and Equity in Education

	ITEMS	N	Mean Score	Remark
1.	Technology enables students from remote areas to access quality educational resources and participate in online learning.	400	2.54	Agree
2.	By offering digital learning tools and resources, technology can help bridge the gap for students with disabilities, allowing them to learn alongside their peers.	400	2.62	Agree
3.	Technology allows for flexible and affordable learning solutions, making it easier for students from low-income backgrounds to access educational materials and courses.	400	2.59	Agree
4.	The use of online platforms and resources allows schools to reach a broader range of students, offering them the same curriculum regardless of location or socioeconomic status.	400	3.25	Agree
5.	Technology, when accessible to all students, helps reduce educational disparities by ensuring that all students, regardless of background, have access to high-quality learning resources.	400	3.18	Agree

Criterion Mean: 2.50 Grand Mean: 2.93

Source: Field Survey, 2024.

The data in Table 3 above shows that items 1, 2, 3, 4 and 5 met the mean score standard of 2.50 and, therefore, were all considered high.

Since the criterion mean of 2.50 is lower than the grand mean of 2.93,

This revealed that Technology enables students from remote areas to

access quality educational resources and participate in online learning. It was seen that by offering digital learning tools and resources, technology can help bridge the gap for students with disabilities, allowing them to learn alongside their peers. It was shown that technology allows for flexible and affordable learning solutions, making it easier for students from low-income backgrounds to access educational materials and courses. It was seen that the use of online platforms and resources allows schools to reach a broader range of students, offering them the same curriculum regardless of location or socioeconomic status. It was revealed that technology, when accessible to all students, helps reduce educational disparities by ensuring that all students, regardless of background, have access to high-quality learning resources.

Discussion of Findings

From research question one it was revealed that Technology integration has made learning more engaging and interactive, leading to better student participation. It was seen that it allows students to access a wide variety of resources that support diverse learning styles.

it was shown that it enhances their understanding by allowing practical, hands-on activities and simulations. It was seen that by using technology, students can work at their own pace and review difficult concepts as needed. It was revealed that Integrating technology helps students develop critical thinking and problem-solving skills through interactive and collaborative learning environments. This was supported by (Ertmer & Ottenbreit-Leftwich 2010) who claims that Technology integration has made learning more engaging and interactive, leading to better student participation, addition, it is crucial that educators possess both technical proficiency and pedagogical understanding to employ technology efficiently in their instruction.

From research question two it was shown that student's are more likely to adopt technology when they feel confident in using it effectively. It was seen that Students are more inclined to use technology if they feel supported and provided with adequate resources. it was shown that Students' personal beliefs about technology's effectiveness impact adoption rates. It was seen that time

constraints and workload affect students' willingness to adopt technology. It was revealed that availability of reliable infrastructure, like fast internet and functioning devices, influences teachers' decisions to adopt technology. This was inline the work of (Shue,2009) who claims that Students are more inclined to use technology if they feel supported and provided with adequate resources. it was shown that Students' personal beliefs about technology's effectiveness impact adoption rates.

From research question three, it was discovered that technology enables students from remote areas to access quality educational resources and participate in online learning. It was seen that by offering digital learning tools and resources, technology can help bridge the gap for students with disabilities, allowing them to learn alongside their peers. it was shown that technology allows for flexible and affordable learning solutions, making it easier for students from low-income backgrounds to access educational materials and courses. It was seen that the use of online platforms and resources allows schools to reach a broader range of students, offering them the same

curriculum regardless of location or socioeconomic status. It was revealed that technology, when accessible to all students, helps reduce educational disparities by ensuring that all students, regardless of background, have access to high-quality learning resources. This was in accordance with work of (Waston, 2007) who claims that technology allows for flexible and affordable learning solutions, making it easier for students from low-income backgrounds to access educational materials and courses.

CHAPTER FIVE

SUMMARY, CONCLUSION AND RECOMMENDATION

This study investigates the impact of technology integration on student learning in Economics Education university of Benin, three research questions were raised to guide the study. The study adopts survey research design. The instrument for the data collection was a questionnaire ,the sample for this study was 400 students selected from four departments; HSE, VTE, EECP, EDUCATIONAL MANAGEMENT. It was built around the research questions by the researcher and validated by the researcher's supervisor. Data collected were analysed using mean and standard deviation.

Findings

After the analysis brought the followings findings;

1. Technology integration enhances student engagement, participation, and understanding by providing access to diverse resources, supporting various learning styles, and enabling hands-on activities.

2. Students' confidence with technology, perceived support, beliefs about its effectiveness, time constraints, workload, and the availability of reliable infrastructure influence their adoption of technology.
3. Technology promotes educational equity by providing access to quality learning resources for students in remote areas, students with disabilities, and those from low-income backgrounds, thereby reducing disparities.

Conclusion

It was concluded that technology plays a transformative role in education, fostering engaging learning experiences, promoting inclusivity, and bridging educational gaps. By addressing factors that influence technology adoption and ensuring equitable access for all students, technology can significantly enhance learning outcomes and create more equitable educational opportunities

Recommendations

Based on the findings, it was recommended that;

1. Integrate technology into instruction to create interactive learning environments that cater to diverse learning styles and promote active participation.
2. Provide students with training and support to build their confidence and competence in using technology effectively.
3. Ensure equitable access to technology and reliable infrastructure for all students, including those in remote areas, with disabilities, and from low-income backgrounds.

Suggestions for Further Studies

1. Investigate the impact of different technological tools and platforms on specific learning outcomes and student engagement across various subjects.
2. Explore the relationship between technology integration, teacher pedagogy, and student achievement in diverse educational settings.
3. Examine the long-term effects of technology use on students' critical thinking, problem-solving, and collaborative learning skills.

4. Assess the role of technology in fostering personalized learning experiences and addressing individual student needs.

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QUESTIONNAIRE

INFLUENCE OF TECHNOLOGY INTEGRATION ON UNIVERSITY STUDENT

Department of Educational
Management,
Faculty of Education,
University of
Benin,
Benin City.

Dear participants,

I am a student of the above department carrying out a study on an assessment on the impact of technology integration on Economics Education Students in University of Benin City, I therefore solicit for your responses, all your response will be treated confidentially.

Please answer the following questions honestly and to the best of your knowledge. Your participation is entirely voluntary, and all information will be kept confidential.

Yours faithfully,

Ofili Racheal chizoba

SECTION A

- Gender: Male [] Female []

- Level: 100L [] 200L [] 300L [] 400L []

SA= STRONGLY AGREE, A= AGREE, SD= STRONGLY DISAGREE, D= DISAGREE

S/N	ITEMS	SA	A	SD	D
	How does technology integration impact students' learning outcomes?				
1	Technology integration has made learning more engaging and interactive, leading to better student participation				
1	It allows students to access a wide variety of resources that support diverse learning styles				
3	it enhances their understanding by allowing practical, hands-on activities and simulations.				
4	By using technology, students can work at their own pace and review difficult concepts as needed				
5	Integrating technology helps students develop				

	critical thinking and problem-solving skills through interactive and collaborative learning environments.				
	What factors influence students' adoption of technology?				
6.	Students are more likely to adopt technology when they feel confident in using it effectively.				
7.	Students are more inclined to use technology if they feel supported and provided with adequate resources.				
8.	Students' personal beliefs about technology's effectiveness impact adoption rates.				
9.	Time constraints and workload affect students' willingness to adopt technology.				
	Availability of reliable infrastructure, like fast				

10.	internet and functioning devices, influences teachers' decisions to adopt technology.				
	How can technology enhance accessibility and equity in education?				
11.	Technology enables students from remote areas to access quality educational resources and participate in online learning,.				
12.	By offering digital learning tools and resources, technology can help bridge the gap for students with disabilities, allowing them to learn alongside their peers.				
13.	Technology allows for flexible and affordable learning solutions, making it easier for students from low-income backgrounds to access educational materials and courses.				

<p>14.</p>	<p>The use of online platforms and resources allows schools to reach a broader range of students, offering them the same curriculum regardless of location or socioeconomic status.</p>				
<p>15.</p>	<p>Technology, when accessible to all students, helps reduce educational disparities by ensuring that all students, regardless of background, have access to high-quality learning resources.</p>				