



## School of Pedagogical Sciences MAHATMA GANDHI UNIVERSITY

High-End Workshop on ICT in Education, 19th to 22nd November 2024

**Concept Note:** The integration of ICT in education has revolutionized traditional teaching and learning practices, creating more inclusive, collaborative, and interactive learning environments. This workshop will equip educators with cutting-edge ICT skills and strategies essential for modern classrooms. Designed for educators and researchers, this high-end workshop provides insights into the latest ICT tools, digital resources, and innovative methodologies for enhancing the quality and effectiveness of education. This workshop aims to inspire a transformative approach to teaching through ICT. By equipping educators with the latest skills and insights, School of Pedagogical Sciences, Mahatma Gandhi University reaffirms its commitment to preparing academic professionals to meet the needs of a digital learning landscape.

### Objectives:

- Foster an in-depth understanding of the role of ICT in transforming educational practices.
- Equip educators with practical skills to integrate digital tools in pedagogic strategies effectively.
- Promote awareness of safe and ethical ICT usage in educational contexts.
- Explore ICT-enabled assessment and evaluation methods that enhance student learning outcomes.
- Enable participants to establish and manage digital knowledge resources and virtual learning environments.

### Key Topics:

- Digital Resources
- E-content Development
- Pedagogic Models for ICT-Supported Learning
- Technological Trends in Teaching and Learning
- AI tools for Research

**Target Audience:** The workshop is ideal for educators, academic administrators, and researchers interested in ICT's evolving role in education. Participants will gain practical knowledge to harness ICT for inclusive teaching, curriculum development, and research in education.

### Expected Outcomes

- Utilize ICT to foster more dynamic and inclusive classroom interactions.
- Design and implement digital resources, leveraging collaborative learning platforms.
- Navigate ICT in ethical, secure, and student-centred ways.
- Employ ICT-based assessment tools to track and improve student performance.

### Organising Committee:

- *Patron:* Prof Asha JV, Ph: 9447043489, Email: ashajv@mgu.ac.in
- *Advisory Board:* Prof Minikutty A, Prof Sajna Jaleel, Dr Sibu G Netto, Dr Muhammed KV, Dr Smitha S
- *Programme Convenor:* Dr Ismail Thamarasseri: Ph: 9446154254, Email: ismail@mgu.ac.in
- *Student Programme Coordinator:* Mr Sreenath BA, Ph: 7902379952

Programme Schedule		
Time, Day & Date	Programme	RP/Guest
09.30 am to 10.45 am, Tuesday, 19th November 2024	Inaugural Session	<i>Prayer:</i> Ms Gowrinandana M <i>Welcome Address:</i> Dr Ismail Thamarasseri <i>Presidential Address:</i> Prof Asha JV <i>Inauguration:</i> <b>Prof. (Dr.) Bismi Gopalakrishnan, Registrar, MGU</b> <i>Felicitation:</i> <ul style="list-style-type: none"> <li>• Prof Minikutty A</li> <li>• Prof Sajna Jaleel</li> <li>• Dr Sibu G Netto</li> <li>• Dr Muhammed KV</li> <li>• Dr Smitha S</li> </ul> <i>Vote of Thanks:</i> Mr Sreenath BA
11 am to 4 pm Tuesday, 19th November 2024	Technical Session 1: <i>Digital Resources: Best Practices &amp; Ensuring Integrity</i>	<b>Dr. M. Sadik Batcha</b> , Professor & Head, Dept of Library & Information Science, Annamalai University <i>Stage Secretary:</i> Ms Irfana Khan M M
10 am to 4 pm Wednesday, 20th November 2024	Technical Session 2: <i>E-content Development &amp; Delivery</i>	<b>Dr Naseerali MK</b> , Principal M.I. Training College Ponnani <i>Stage Secretary:</i> Ms Gurumahima M V
10 am to 4 pm Thursday, 21st November 2024	Technical Session 3: <i>Digi-skills: Technological Trends in Teaching and Learning</i>	<b>Ms Saleema M</b> , Asst Professor, Hill Valley College of Education, Ernakulam <i>Stage Secretary:</i> Mr Dominic Joseph
10 am to 3 pm Friday, 22nd November 2024	Technical Session-4: <i>AI tools for Research</i>	<b>Dr Nishad A</b> , Faculty, Computer Science, DHSE Kerala <i>Stage Secretary:</i> Ms Praveena P
3 pm to 4 pm Friday, 22nd November 2024	Valedictory Session	<i>Welcome Address:</i> Dr Vipin Thomas Discussion & Feedback <i>Report Presentation:</i> Ms Sneha K <i>Valedictory Address &amp; Certificate Distribution:</i> Prof Asha JV <i>Vote of Thanks:</i> Ms Anjana M

**REPORT ON THE INAUGURATION SESSION OF THE HIGH-END WORKSHOP ON ICT IN EDUCATION  
(19TH NOVEMBER 2024)**

The School of Pedagogical Sciences, Mahatma Gandhi University, hosted a High-End Workshop on ICT in Education from 19th to 22nd November 2024. The event aimed to provide participants with advanced knowledge and skills in integrating Information and Communication Technology (ICT) into education. The workshop commenced with an engaging inaugural session on 19th November 2024, setting the tone for four days of intensive learning and knowledge-sharing.

**Inaugural Session:** The inaugural session began with a solemn prayer led by Ms. Gowrinandana M, marking a serene and inspiring start to the day. Following this, Dr. Ismail Thamarasseri, Assistant Professor of the School of Pedagogical Sciences, delivered a warm welcome address. Dr. Thamarasseri highlighted the importance of ICT in modern education and extended a warm welcome to all dignitaries, resource persons, and participants.

**Presidential Address:** The presidential address was delivered by Prof. (Dr.) Asha JV, Head of the Department, School of Pedagogical Sciences, MGU. In her address, she emphasized the transformative role of ICT in the education sector. Prof. Asha underlined the university's commitment to equipping educators and students with the tools needed to thrive in a digital world.

**Inauguration:** The workshop was officially inaugurated by Prof. (Dr.) Bismi Gopalakrishnan, Registrar of Mahatma Gandhi University. In her inaugural speech, she applauded the initiative of the School of Pedagogical Sciences in organizing such a relevant and forward-thinking workshop. She highlighted the necessity of aligning educational practices with technological advancements and encouraged participants to utilize this opportunity to its fullest potential.

**Felicitations**

Prof. (Dr.) Minikutty A, Dean, Faculty of Education, MGU

Prof. (Dr.) Sajna Jaleel, Professor, SPS

Dr. Sibin Netto, Associate Professor, SPS

Dr. Muhammed K V, Assistant Professor, SPS

Dr. Smitha S, Assistant Professor, SPS

The inaugural session of the workshop was enriched by the presence of esteemed faculty members who delivered their felicitations. Each of them shared their perspectives on the importance of ICT in education and emphasized its role in enhancing teaching and learning practices.

Prof. (Dr.) Minikutty A, Dean of the Faculty of Education at Mahatma Gandhi University, began the felicitation speeches. She highlighted how technology has transformed the education landscape and encouraged educators to embrace ICT to make learning more engaging and accessible. Dr. Minikutty stressed the need for workshops like this to equip teachers with the necessary skills and tools for integrating technology into classrooms effectively.

Next, Prof. (Dr.) Sajna Jaleel, a Professor from the School of Pedagogical Sciences, expressed her appreciation for the workshop's timely focus. She explained how ICT can bridge gaps in education, especially in remote areas, and help create equal opportunities for all learners. Dr. Sajna also spoke about the challenges educators face in adapting to technology and the importance of continuous professional development to overcome these obstacles.

Dr. Sibin Netto, Associate Professor at SPS, shared her insights on the evolving role of teachers in the digital age. She emphasized that educators should not only focus on teaching content but also on fostering critical thinking and digital literacy among students. Dr. Sibin applauded the initiative taken by the university to organize such a forward-looking workshop and encouraged participants to make the most of the sessions.

Dr. Muhammed K V, Assistant Professor at SPS, discussed the potential of ICT to revolutionize traditional teaching methods. He pointed out that digital tools can make learning more interactive and personalized, catering to the diverse needs of students. Dr. Muhammed urged participants to explore innovative ways to integrate ICT into their teaching practices to make learning enjoyable and effective.

Finally, Dr. Smitha S, Assistant Professor at SPS, spoke about the importance of staying updated with technological advancements. She highlighted the role of ICT in creating collaborative and inclusive learning environments. Dr. Smitha encouraged educators to use ICT not only as a teaching tool but also as a means to inspire creativity and curiosity among students.

**Vote of Thanks:** The session concluded with a heartfelt vote of thanks by Mr. Sreenath BA. He expressed gratitude to the dignitaries for their valuable insights, the organizing team for their efforts, and the participants for their enthusiasm. His words reflected the collective optimism for the success of the workshop.

**Report of the Technical Session - Day 1 of the High-End Workshop on ICT in Education (19th November 2024)**

The first day of the High-End Workshop on ICT in Education began with great enthusiasm. Participants from various institutions gathered to explore the use of digital tools and resources in the education sector. The day's theme was "Digital Resources: Best Practices & Ensuring Integrity", led by the keynote speaker Dr. M. Sadik Batcha, Professor and Head of the Department of Library & Information Science, Annamalai University.

**Morning Session: Introduction to Digital Resources**

Dr. Sadik Batcha began the morning session by discussing the wide variety of digital resources available to educators and learners. He explained the importance of using reliable and accurate resources in educational settings. He categorized digital resources into online journals, e-books, educational websites, open educational resources (OERs), and multimedia platforms. Different Journals Dr. Batcha emphasized the need to verify the authenticity of digital content before using it in classrooms.

The workshop featured a session on utilizing Web of Science (WoS) for academic research. Facilitators introduced WoS as a trusted platform for accessing peer-reviewed journals and citation metrics. They explained how to identify high-impact journals and evaluate them using tools like SJR (Scientific Journal Ranking). Participants learned to analyse citation data, check journal scopes, and understand publication charges. Practical demonstrations provided insights into searching for articles and filtering results. The session emphasized ethical publishing and selecting relevant journals, offering participants valuable guidance to improve research quality and reach in the academic community.

**Afternoon Session: Article Writing Process and Techniques:** Dr. Batcha then conducted a hands-on session on how to use digital repositories and search engines effectively. Participants practiced accessing research articles, e-books, and teaching aids from various online platforms.

The session introduced a wide range of academic and digital tools designed to enhance teaching, learning, research, and administrative efficiency. Participants explored resources like MIT Virtual Lab, Quizizz, and FOSSEE for enhancing learning, and administrative platforms like *Samarthegov* and Digital University for streamlined governance. AI tools like ChatPDF, Bhashini, and MidJourney were highlighted for improving productivity in research and creative projects. For literature search, tools such as Semantic Scholar, Elicit AI, and Humata were introduced, enabling efficient academic exploration. Visualization tools like Litmaps and Connected Papers showcased how researchers can map ideas. The session emphasized plagiarism's legal and ethical implications. Strategies like rephrasing, using synonyms, and employing tools like Turnitin and Quillbot were discussed to maintain academic integrity. This comprehensive overview equipped scholars with practical knowledge to enhance research and writing while ensuring originality. Overall, the session provided practical insights into utilizing modern tools and technologies, empowering scholars, educators, and administrators to enhance productivity and maintain academic integrity. The comprehensive overview highlighted how these resources could drive innovation and efficiency in academic and professional environments.

## **Report - Day 2 of the High-End Workshop on ICT in Education dated 20th November 2024**

The second day of the workshop on ICT in Education focused on E-Content Development and Delivery, with the session led by Dr. Naseerali MK, Principal of M.I. Training College, Ponnani. The day revolved around understanding the critical role of e-content in modern education and equipping participants with tools and techniques to create and deliver effective digital educational materials.

**Morning Session: Introduction to E-Content:** The session began with an introduction to e-content, emphasizing its importance in today's education landscape. Dr. Naseerali explained how e-content serves as an essential medium to make learning accessible, engaging, and flexible. He highlighted the rapid shift from traditional classroom teaching to blended and online learning, especially during and after the pandemic. This shift has necessitated the adoption of digital resources for effective teaching and learning. E-content was defined as a combination of text, multimedia, animations, and interactive elements designed to convey information in an engaging and comprehensive manner. The speaker elaborated on its versatility in catering to different learning styles, such as visual, auditory, and kinaesthetic learners. Dr. Naseerali stressed that creating quality e-content requires meticulous planning and creativity. He introduced participants to the following core components of effective e-content such as clarity and simplicity, interactivity, relevance and accuracy, multimedia integration, videos, animations, and audio elements enhance the visual and auditory appeal of learning materials.

**Afternoon Session: Editing of E-Content in live stream:** The session started with demonstration of exporting voice over in PowerPoint presentation. Dr. Naseerali M.K. then explained the different ways of recording screen using Zoom platform. After that he showed Iriun Webcam, an application for utilizing smartphone camera for Zoom meetings instead of low-resolution laptop cameras. Then, he introduced the platform called OBS, a tool for editing in live streaming. It has been illustrated with the help of students.

Give a brief session of how the E-content provides teachers and trainers a platform to create and sell digital educational materials, leveraging EDAPT software to develop interactive lessons, quizzes, and assessments. A dedicated web page promotes their content, increasing visibility and sales, enabling them to monetize their expertise. EDAPT software features include interactive content creation, assessment tools, and analytics. However, using multiple software poses data security risks. To mitigate this, secure software solutions are recommended. The future scope of e-content is vast, with opportunities for expansion into new markets, institutional collaborations, specialized courses, and AI-powered tools integration. Effective strategies include regular content updates, learner engagement, and analytics monitoring. By utilizing e-content and EDAPT software, educators can establish a successful online presence, promote their expertise, and generate passive income while ensuring data security, ultimately enhancing their professional growth and profitability.

This digital transition empowers teachers and trainers to reach a wider audience and build a sustainable business model. The importance of interactive white board, *Canva* usage for different presentation, content maker, poster generator, editing options etc...As the ending of the session the major implementation of the ICT for emphasized that unemployment can be effectively overcome through the strategic utilization of Information and Communication Technology (ICT) enables individuals to develop entrepreneurial skills, creating opportunities for self-employment and financial stability. By harnessing digital tools, individuals can establish online businesses, access remote work opportunities, and tap into global markets. ICT integration enhances digital literacy, fosters innovation, and promotes economic growth.

Encourages individuals to leverage technology, unlocking their potential and shaping a brighter future as entrepreneurs, ultimately transforming unemployment into economic empowerment and sustainable development. The session was very useful and the vision have inspired to explore new opportunities.

## Report - Day 3 of the High-End Workshop on ICT in Education 21<sup>st</sup> November 2024

The third day of the High-End Workshop on ICT in Education was centred on Digi-Skills: Technological Trends in Teaching & Learning. The session was led by Ms. Saleema M, Assistant Professor at Hill Valley College of Education, Ernakulam. This interactive and engaging day revolved around the integration of digital tools and techniques to transform traditional teaching practices and foster a student-centric learning environment. Ms. Saleema began by introducing the concept of digital skills in education, emphasizing their relevance in today's technologically driven world. She explained that "digi-skills" are not just about using digital tools but understanding how to apply them effectively to create meaningful learning experiences. Educators were encouraged to think beyond conventional methods and embrace innovative teaching approaches. The speaker highlighted that digital transformation in education is necessary to meet the evolving needs of students, who are digital natives, and to prepare them for a competitive global workforce.

*Morning Session: Introduction to E-Content:* Ms. Saleema emphasized that digital skills are essential in today's technologically driven world. She encouraged educators to think beyond conventional methods and embrace innovative teaching approaches. The session covered trends shaping modern education: gamification, augmented and virtual reality, flipped classrooms, and AI-powered learning. Tools like Quizizz, Kahoot, and Blookit were highlighted. Ms. Saleema shared success stories of schools implementing blended learning models and AR/VR tools. Group activities allowed participants to design lessons incorporating digital tools. Introduced AI tools for different subject benefits. Wisdolia helps to generate flashcards and multiple-choice questions in seconds. Magic School the award-winning, most used, and most loved AI platform for schools in the world. Educators use *MagicSchool* to help lesson plan, differentiate, write assessments, write IEPs, communicate clearly, and more. And now use *MagicSchool* for Students to bring responsible AI experiences to students and build AI literacy for the next generation.

*Afternoon Session: Editing of E-Content in live stream:* The session equipped educators with knowledge and skills to integrate digital tools into their teaching practices. Ms. Saleema's engaging approach left participants motivated to embrace technological trends in education.

### Key Takeaways:

- Integration of digital tools enhances teaching and learning.
- Google Workspace streamlines educational workflows.
- Collaborative planning fosters innovative teaching methods.
- Technology enables personalized and interactive learning.

By implementing these strategies, educators can harness the potential of technology to transform education and empower future generations.

## Report - Day 4 of the High-End Workshop on ICT in Education 22<sup>nd</sup> November 2024

The final day of the High-End Workshop on ICT in Education focused on the topic AI Tools for Research. The session was led by Dr. Nishad A, a faculty member from the Department of Computer Science, DHSE Kerala. This session served as a perfect conclusion to the workshop, providing participants with insights into the application of artificial intelligence in academic and professional research.

*Morning Session:* Dr. Nishad began the session by explaining the curriculum development. How much time the gadgets usages in our day-to-day life. The information explosion has been influenced and is the rapid increase in the amount of published information or data and the effects of this abundance. The session focused on exploring various resources and information sources that enhance learning and research. The discussion began with platforms like Wiki, known for its vast collection of collaborative knowledge, and TIOBE Index, a reliable source for tracking programming language popularity. GitHub was highlighted as a powerful resource for software development and collaborative coding, while Quora was recognized as a platform for sharing knowledge and gaining insights from experts worldwide. The session also introduced Second Life, a unique metaverse platform offering virtual experiences for learning and social interaction. For scholarly reading, platforms like arXiv, a hub for open-access research papers, and Altmetric, which measures the impact of academic work across digital platforms, were discussed. Participants were encouraged to leverage these tools to access reliable information, stay updated with trends, and engage in meaningful research. The session emphasized the importance of critically evaluating these resources and using them effectively to enhance personal and professional growth. After the tea break, Dr. Nishad introduced different AI tools which are useful in recent educational environment. It includes Gemini, ChatGPT, Perplexity, Consensus etc. In between the discussion he demonstrated the various applications of Semantic Scholar. The difference between Generative AI and Predictive AI was also stated during the session. It was then followed by the

explanation on Prompt engineering. The illustration focused on the ideal way of giving adequate prompts in an AI tool. It was then extended by familiarizing the students with how to summarize research papers using AI platforms. Another AI system called Chatpdf was demonstrated. The concept of Prompt Injection was also described. The session took the lunch break after the interesting discussion made on the AI tool Explainpaper which has been used to interpret terminologies in research papers and other articles.

**Afternoon Session:** The afternoon session provided an engaging exploration of modern tools and platforms that enhance productivity and creativity in programming, data science, AI, and multimedia. The session began with Google Colab, a powerful online platform for Python programming, enabling users to write and execute code collaboratively in the cloud. Kaggle, a repository for data science enthusiasts, was introduced as a hub for datasets, competitions, and learning resources. The participants learned about Hugging Face, a platform offering a vast repository of AI models, facilitating advancements in natural language processing and machine learning. Tools like Leonardo AI were showcased for converting text to image.

The session also explored Connected Papers, a unique tool for visualizing research paper connections, and Stable Diffusion, a platform for image generation through AI. Trinka AI was highlighted as a valuable tool for improving documentation with grammar and clarity corrections, while Perplexity AI was presented as a resourceful AI-powered search assistant. Finally, VideoGrabber emerged as an effective tool for downloading and managing multimedia content. Overall, the session provided participants with a comprehensive overview of cutting-edge technologies, encouraging them to integrate these tools into their academic, creative, and professional endeavors.

#### **HIGH-END WORKSHOP ON ICT IN EDUCATION - Duty List**

##### **19/11/2024 Tuesday**

Anchor: Dona Mariya Joy  
 Registration: Vandana Chandran, Vaishnavy Venugopal, Bennison Sunny Mannarath  
 Reception: Bella Donna Rachel Varghese, Gopika Gopan  
 Bouquet: Kripa T. Reji, Khamarunnisa E. M.  
 Stage Secretary: Irfana Khan M.M.  
 Logistics: Muhammad Ashik S., Jerald Thomas  
 Discipline: Sneha K.  
 Refreshment: Sijin John, Sharlet P. Joy, Anjana Shaji  
 Food: Amalu K. Alias, Akhila Monachen, Joe John Mathew, Praveena P, Dhanya R. Nair, Allwin Thomas

##### **Technical Session**

Introduction: - Ann Mariya Joseph  
 Vote of Thanks: - Binu Joseph  
 Photography: - M. Muhammed Althaf, Akshay Harshan

##### **20/11/2024 Wednesday**

Stage Secretary: - Dominic Joseph  
 Logistics: - Gokul K. , Jaison Joseph  
 Discipline: - Anjana M.  
 Refreshment: - Irfana Khan M.M. , Arathy S. Karunakaran

##### **Technical Session**

Introduction: - Athira Vijayakumar  
 Vote of Thanks: - Nicholas Kiptisha  
 Photography: - Nandu K. Pramod , Amalu K. Alias

##### **21/11/2024 Thursday**

Stage Secretary: - Gurumahima M.V.  
 Logistics: - Gokul K. , Joe John Mathew  
 Discipline: - Anjali Sebastian  
 Refreshment: - Sreelekshmi M. , Anjana S. , John Panicker K. G.

##### **Technical Session**

Introduction: - Gayathri Premkumar  
 Vote of Thanks: - Nikhil Antony  
 Photography: - Vandana Chandran , Gopika Gopan

##### **22/11/2024 Friday**

Stage Secretary: - Praveena P.  
 Logistics: - Muhammad Ashik S. , M. Muhammed Althaf  
 Discipline: - Meenu Varghese  
 Refreshment: - Kripa T. Reji , Vipin Thomas , Sujith P.S.

##### **Technical Session**

Introduction: - Sradha S. Raj  
 Vote of Thanks: - Athira J. Nair  
 Photography: - Gowrinandana M.

##### **Valedictory Session**

Anchor: - Dona Mariya Joy, Welcome Address: - Dr. Vipin Thomas, Vote of Thanks: - Anjana M.