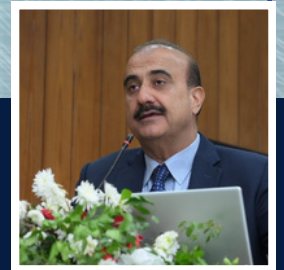# 2ND IBCC ANNUAL CONFERENCE 24

October 23–24, 2024

Conference Proceedings

Building a Brighter Future:
The Role of Technology in Assessment

Message from the Federal Minister

It is a privilege to extend my felicitations on the successful convening of the 2nd IBCC Annual Conference 2024. This significant event has brought together a remarkable assembly of thought leaders, educators, and technology experts to reimagine Pakistan's assessment landscape, advancing our collective vision for a transparent, equitable, and high-quality educational system.

The theme Building a Brighter Future: The Role of Technology in Assessment is both well-timed and transformative. By embracing technology-driven innovations, we are poised to reclaim Pakistan's educational prominence, ensuring that every student is assessed with integrity, precision, and fairness. The deliberations over these two days have demonstrated that enhancing the quality of assessments directly uplifts our education system and, in turn, the lives of our youth. These efforts highlight how digital tools can foster greater transparency in evaluations – an essential component in ensuring a fair and merit-based academic journey for all.

Dr. Khalid Maqbool Siddiqui
Federal Minister
Ministry of Federal Education and Professional Training
Government of Pakistan

I would like to extend my appreciation to Mr. Mohyuddin Ahmad Wani, Federal Secretary, Ministry of Federal Education and Professional Training, for his visionary leadership and exceptional commitment to this cause. In particular, Dr. Ghulam Ali Mallah, Executive Director, of Inter Boards Coordination Commission (IBCC) and his team have shown commendable dedication in organizing this forward-looking conference, creating a platform for innovation and strategic discourse. Their contributions are a testament to the power of teamwork and institutional collaboration in driving lasting reforms.

The outcomes of this conference, from AI-enhanced assessment solutions to the deliberations on the proposed National Assessment Framework (NAF), are commendable strides toward establishing an assessment system that upholds international standards while meeting local needs. The Ministry will continue to support these recommendations, fostering collaboration and providing the resources needed to make them a reality. Together, we are building an education system that not only assesses knowledge but also empowers students to achieve their full potential in a globalized world.

This conference exemplifies our shared commitment to transforming education in Pakistan, and I am confident that the recommendations made here will serve as a blueprint for sustainable progress in assessment practices across the nation.

Message from the Federal Secretary

It is with great pride and optimism that I extend my congratulations on the successful conclusion of the 2nd Annual IBCC Conference 2024. This landmark event has effectively highlighted the transformative potential of technology in modernizing Pakistan's assessment and examination systems, setting a strategic direction toward a more inclusive, fair, and efficient educational landscape.

The conference theme, Building a Brighter Future: The Role of Technology in Assessment, captures the profound impact digital innovations can have on our education system. This gathering of distinguished educationists, policymakers, and technology experts underscored the critical importance of establishing a standardized assessment framework that aligns with our national objectives while embracing international best practices. The sessions and workshops provided invaluable insights into AI-driven assessment solutions, adaptive testing, and data analytics, essential tools that promise to bring transparency, equity, and consistency to our educational assessments.

Mohyuddin Ahmad Wani
Federal Secretary
Ministry of Federal Education
and Professional Training
Government of Pakistan

I would like to appreciate the efforts of the Inter Boards Coordination Commission (IBCC) and commend Dr. Ghulam Ali Mallah, Executive Director IBCC, whose leadership has been instrumental in organizing this impactful conference. The dedication of the organizing committee, combined with the expertise and engagement of renowned speakers and partners, has produced actionable recommendations that resonate with our commitment to advancing educational standards nationwide.

The recommendations emerging from this conference, including the proposed National Assessment Framework (NAF), greater support for teacher training, and phased integration of AI in assessment, are vital steps toward ensuring that our assessment practices reflect the dynamic needs of students across Pakistan. As we move forward, the Ministry is committed to endorsing these recommendations and fostering collaborative partnerships to implement them effectively.

This conference is more than just a series of discussions; it is a testament to our shared vision for a future where every learner is given a fair opportunity to excel through robust, ethical, and technology-enhanced assessment systems. I am confident that the momentum generated here will drive meaningful progress in Pakistan's educational landscape, fulfilling our promise to equip the next generation with skills essential to compete in a global knowledge-based economy.

2ND IBCC ANNUAL CONFERENCE 24
October 23–24, 2024

Table of Contents

2ND IBCC ANNUAL CONFERENCE 24
October 23–24, 2024

Foreword

The **2nd IBCC Annual Conference,** held on **October 23–24, 2024**, served as a vital platform for academic leaders, educators, researchers, and technology experts to discuss the shifting landscape of educational assessment and the transformative role of technology. As technology rapidly advances and educational demands evolve, the conference encouraged the exploration of innovative assessment practices, AI-driven digital solutions, and the ethical considerations essential for responsible technology implementation. Through keynote speeches and interactive workshops, participants engaged in collaborative dialogues, addressing both the complexities and potential of modern assessment methods. Aimed at fostering collaboration among local and international experts, the conference focused on capacity-building for technology-enabled assessments, AI integration, and developing an implementation plan for standardized assessment frameworks to ensure standardized and equitable evaluation nationwide. Key themes included critical thinking, adaptability, and continuous improvement, essential for preparing students for a globalized world. Outcomes from the conference underscored the need for balanced, ethically-grounded technological adoption to maintain educational integrity. This event represents a significant step in IBCC's mission to develop a fair and inclusive educational assessment system aligned with both national and international standards.

Dr. Ghulam Ali Mallah
Executive Director/
Conference Patron

Acknowledgments

The success of the **2nd IBCC Annual Conference 2024** themed **"Building a Brighter Future: The Role of Technology in Assessment"** was made possible by the combined efforts of numerous contributors. The Conference Organizing Committee of the **Inter Boards of Coordination Commission (IBCC),** under the guidance of the **Ministry of Federal Education and Professional Training, Government of Pakistan,** demonstrated exceptional dedication and coordination in planning and delivering this impactful event. The vision of IBCC to advance assessment practices in Pakistan reflects its commitment to educational innovation. A special acknowledgment goes to our keynote speakers, session moderators, distinguished panelists, and workshop resource persons, whose expertise and insights into modern assessment techniques, technological innovations, and policy development provided the conference participants with invaluable knowledge. Their presentations and discussions laid the foundation for meaningful dialogue and strategic planning within educational landscape of Pakistan. We also extend our gratitude to our partners and supporting institutions, whose collaboration added depth and diversity to the conference. The active involvement of prominent educational institutions and organizations—such as **Allama Iqbal Open University (AIOU), Cambridge International Education (CIE), Pearson, Roots Millennium Education Group, International Baccalaureate (IB), Denning, Financial Training Institute (FTI), Learning Resource Network (LRN), Trinity School, EduFocus, The Millennium Education, Oxford AQA, Millennium Institute of Technology and Entrepreneurship,** and **KEYTAAB**—enriched the discussions and highlighted the significance of collective action for the advancement of education and revamping the assessment practices in Pakistan. Their contributions in terms of resources, expertise, and innovative tools facilitated engaging workshops, panel discussions, and hands-on activities. This collaboration has set a precedent for continuous cooperation, reinforcing our commitment to fostering an educational system that is both accessible and advanced. We look forward to strengthening these partnerships as we work together towards a future where technology and education amalgamate to shape a brighter future for generations to come.

Executive Summary

Spanning over two days, the 2nd IBCC Annual Conference 2024 convened more than five hundred leaders in education, technology, and policy to address the transformative role of digital innovation in educational assessment. With objectives focused on standardizing assessments and enhancing the use of AI and digital tools, the conference explored avenues for making evaluation processes more equitable and aligned with evolving academic demands. Sessions highlighted the need for a standardized assessment framework to ensure consistency and equity across Pakistan's diverse educational landscape and stressed the critical need to train educators in modern, technology-enabled assessment methods. The key activities included keynote speeches, panel discussions and capacity-building workshops that provided a comprehensive view of current educational challenges and innovations. Workshops emphasized building digital capacities, including AI-assisted grading, data analytics, and establishing and utilizing the question item banks, to support consistent and accurate assessment processes. Thought leaders discussed the need for assessments to foster higher-order thinking while ensuring ethical data usage, underscoring the need for assessment methods that respect privacy and support educational fairness. International collaborations were also discussed as a means to establish best practices and elevate educational standards in Pakistan. The conference outcomes highlighted the importance of integrating AI carefully, balancing its efficiency with ethical concerns around data security and fairness. The participants emphasized a holistic approach to assessments, combining summative and formative methods to address diverse learner needs. The discussions pointed to a future where technology supports, rather than replaces educators and enhances the learning experiences of students. The IBCC reaffirms its commitment to driving policy improvements and fostering partnerships that will advance Pakistan's educational assessment frameworks toward a more inclusive and innovative future.

Conference Agenda

The 2nd IBCC Annual Conference, themed **Building a Brighter Future: The Role of Technology in Assessment,** marked a significant step in reimagining Pakistan's assessment and examination systems for a digital future. The conference agenda includes the following:

Main Theme

Building a Brighter Future: The Role of Technology in Assessment

Sub-Themes

Sub Theme 1 Technological Innovations in Assessment

Sub Theme 2 Best Practices in Examination and Assessment in Pakistan & Globally

Sub Theme 3 Capacity Building for Educators and Assessors

Objectives

- Discuss the role of emerging technologies in transforming the assessment and examination landscape.
- Empower educators, assessors, and policymakers with digital tools and knowledge to implement modern assessment techniques effectively.
- Develop actionable policy recommendations for improving examination and assessment systems at the national level.

Keynotes:

- The Future of Educational Assessments in the Digital Era: A Glocal Perspective
- Indigenous Issues in Assessment and the Way Forward
- Ethics and Privacy in Digital Assessment.

Panel Discussions:

- Integrating Technology into Examination Systems: Challenges and Solutions
- International Collaboration for Standardized Assessments: Opportunities & Best Practices
- Bridging the Gap: Access to Standardized Education & Assessment for All

Workshops:

Workshop I: Digital Solutions for Assessment Lifecycle

Workshop-II: Developing Implementation Plan for Standardized Assessment Frameworks

Workshop-III: Big Data and Analytics in Standardized Assessments for Informed Decisions

Workshop-IV: Enhancing Teacher and Assessor Competency in Modern Assessment Techniques

Day 1: October 23, 2024

Opening Ceremony

The opening ceremony of the **2nd IBCC Annual Conference 2024** witnessed an eminent assembly of thought leaders, including academicians, Vice-Chancellors, Deans, Directors, Chairpersons of Educational Boards along with the Secretaries, Controllers of Examinations and IT Experts who gathered to discuss progressive educational and assessment reforms in Pakistan.

Dr. Ghulam Ali Mallah, Executive Director of IBCC, delivered a warm welcome address, emphasizing the critical role of technology in reshaping assessment practices and enhancing the quality of education nationwide. Dr. Mallah underscored that quality assessment is an integral part of quality education. He highlighted the necessity of equipping educators with skills in classroom teaching and assessment methods, reflecting on lessons from the COVID-19 era.

Dr. Khalid Maqbool Siddiqui, Federal Minister, Ministry of Federal Education and Professional Training, Government of Pakistan, graced the opening ceremony as the Chief Guest. He emphasized the transformative power of technology, stating that it could enable Pakistan to regain its historical prominence. He emphasized that the quality of questions in assessments can elevate the overall quality of education and quality life. He further highlighted how digital tools bring transparency to educational processes, which is essential for fair evaluations.

Prof. Dr. Mukhtar Ahmed, Chairman, Higher Education Commission (HEC) of Pakistan, participated in the conference as the Guest of Honor in the opening ceremony. Dr. Mukhtar echoed the call for transparency and impartiality in assessments. He suggested implementing a national-level pool of questions for exams, allowing educational institutions to select and mark them within groups to prevent bias. This approach would encourage consistent standards and reliability in evaluations across different institutions. Both dignitaries emphasized the necessity of teacher training in technology for instructional delivery and assessment.

Keynote Speech 1: "The Future of Educational Assessments in the Digital Era: A Glocal Perspective"

Prof. Dr. Zubair Ahmed Shaikh, President, Muhammad Ali Jinnah University (MAJU), Karachi, emphasized the transformative potential of technology in modernizing education and assessment to meet the needs of digitally native Generations Z and Alpha. He advocated for assessments that align with the interests of students through digital tools such as e-books, gamified quizzes, and AI-driven evaluations using chatbots and avatars. His vision includes creating virtual schools and interactive "avatar teachers" for enhanced learning experiences, supported by cloud technologies and real-time data. While enthusiastic about the benefits of tech-driven education, he stressed the need for ethical considerations, privacy, and socio-technical acceptance, suggesting adaptive assessment formats that leverage platforms like WhatsApp, Quizizz, and Kahoot to create an engaging and responsible digital assessment landscape.

Keynote Speech 2: "Indigenous Issues in Assessment and the Way Forward"

Prof. Dr. Nasir Mahmood, Vice-Chancellor, Allama Iqbal Open University (AIOU), Islamabad, highlighted key challenges in educational assessment system of Pakistan, advocating for reforms that prioritize critical thinking, communication, and creativity over rote learning. He stressed the importance of long-term planning to create assessment systems that foster higher-order skills rather than exam-focused teaching. He recommended implementing a uniform national assessment framework to standardize assessment standards and promote equity. He noted AI's supportive role in education while emphasizing that it cannot replace the judgment of educators. Additionally, he discussed the "washback effect", where students prioritize high marks over meaningful learning, and proposed continuous and diagnostic assessments to reflect true student progress and address the learning gaps.

PANEL DISCUSSION-1

Integrating Technology into Examination Systems:
Challenges and Solutions

Moderator
Prof. Dr. Shahid Soroya
Director General, Pakistan Institute of Education (PIE), Islamabad

Panelists
Lt. Gen. Moazzam Ejaz (Retd)
Rector, National University of Technology (NUTECH), Islamabad

Prof. Dr. Arshad Saleem Bhatti
Rector, Virtual University (VU) of Pakistan, Islamabad

Prof. Dr. Jamil Ahmed
Member IT, Higher Education Commission (HEC) of Pakistan, Islamabad

Dr. Nasir Mahmood
Director, Assessment and Framework, Punjab Examination Commission (PEC), Lahore

Dr. Irfan Muzaffar
CEO, Margallah Thought Collective, Islamabad

This panel discussion centered on the integration of technology in education, emphasizing foundational digital skills and gradual adoption to enhance assessment practices. The panelists agreed on the need for adaptive testing powered by AI and the importance of question item banks to support unbiased and customized evaluations. Addressing the digital divide was a priority, with calls for efforts to ensure that all students, particularly in underserved areas, have access to technology and contextually relevant AI tools. The panelists also highlighted the need for secure data environments and the ethical use of AI to protect the privacy and maintain assessment integrity. The role of educators in this transition was also underlined, emphasizing training to ensure that the technology supports, rather than replaces, human judgment in assessments. Audience questions about balancing technology with critical thinking and addressing biases in e-assessments were responded with recommendations for diverse question formats and strategies to discourage plagiarism. The panel advocated a collaborative and ethical approach to digital transformation, focusing on creating accessible, secure, and equitable assessments for all students in Pakistan.

WORKSHOPS AND ROUNDTABLE DISCUSSIONS

The Capacity Building Workshop and Roundtable Discussion-1: "Digital Solutions for Assessment Lifecycle"

The workshop covered various topics on digital assessment methods, emphasizing Classical Test Theory (CTT) metrics like the Difficulty Index and Discrimination Index. These tools help refine assessments by analyzing item difficulty, discrimination levels, and guessing probabilities, all visualized for interpretability. AI-driven solutions were also discussed, such as computer-based proctoring using audio classification, face and object detection, and eye tracking, as well as AI-assisted grading for uniformity in assessing digital and handwritten texts. During the subsequent roundtable discussion, the resource persons responded to questions about scaling AI-based assessments, suggesting that infrastructure investment would yield significant returns over time. While AI cannot replace human judgment in complex assessments, it can facilitate streamlining the processes. Additionally, concerns about privacy, security, and data integrity were addressed, reassuring participants that safeguards prevent data tampering and unauthorized sharing.

WORKSHOPS AND ROUNDTABLE DISCUSSIONS

The Capacity Building Workshop and Roundtable Discussion-2: "Developing Implementation Plan for Standardized Assessment Frameworks"

This workshop introduced participants with the National Assessment Framework (NAF), being prepared by IBCC, which aims to align assessments with curricula. The resource persons outlined the structure and goals of NAF, including creating question item banks and establishing guidelines to elevate assessment quality, reliability, and inclusivity. The discussion covered current challenges, including regional disparities, resistance to new assessment methods, and the need for teacher training. Another concern was raised about university entry tests, as universities often lack confidence in board results; addressing these challenges could mitigate this issue. The proposed solutions emphasized capacity building and curriculum alignment to foster higher-order thinking. In subsequent roundtable discussion, the participants suggested to ensure that the curriculum should be provided at the beginning of the session rather than during or at the end of the term.

Day 2: October 24, 2024

Keynote Speech 3: "Ethics and Privacy in Digital Assessment"

Dr. Zulfiqar Ali Memon, Director, FAST National University, Karachi Campus, in his keynote address, highlighted the complexities of traditional and digital assessment environments. He noted the pressures on students during exams, where invigilators ensure integrity while teachers face the challenge of assessing numerous papers with a focus on cognitive understanding. He advocated for digital assessment, emphasizing the efficiency of proctoring software and Learning Management Systems (LMS) used globally by institutions such as the University of Florida and Broward College. While digital tools offer convenience and scalability, he stressed the critical need to uphold student privacy and data security. He outlined concerns over data collection, risks of data breaches, and emphasized informed consent, allowing students to review the stored data. Referencing the seven GDPR principles - transparency, data minimization, purpose limitation, accuracy, integrity, storage limitation, and accountability – he underscored the importance of ethical practices in digital assessment as well as discussed the mental health impacts of AI-driven digital proctoring, advocating for designs that consider the psychological well-being of students amid cybersecurity risks.

PANEL DISCUSSION-2
International Collaboration for Standardized Assessments:
Opportunities & Best Practices

Moderator
Ms. Munira Mohammad
Lead Specialist, Aga Khan University
Examination Board (AKU–EB), Karachi

Panelists
Dr. Chaudhry Faisal Mushtaq
Founder & CEO, Roots Millennium
Education Group, Pakistan

Dr. Naveed Yousuf
CEO, Aga Khan University Examination
Board (AKU–EB), Karachi

Ms. Amanda Ingram
Country Director (Examinations), British
Council, Pakistan

Ms. Uzma Yousuf
Country Director, Cambridge International
Education (CIE), Pakistan.

Mr. Syed Waqar Ahmed Shah
Deputy General Manager
Pearson, Pakistan

Ms. Uzma Shujjat
Regional Manager, International
Baccalaureate (IB), Pakistan

This panel discussion focused on the role of international collaboration, standardized assessments, and addressing educational gaps in Pakistan. The panelists emphasized the value of a balanced approach, integrating traditional and modern methods within a standardized framework while recognizing unique local challenges. Standardization, they agreed, should be implemented selectively, targeting specific processes and allowing for flexibility to address diverse educational needs. Inclusive assessments were highlighted as essential, with a focus on competency-based education that supports skill development and fairness across socio-economic backgrounds. Additionally, panelists stressed the importance of teacher training and quality assurance to enhance assessment practices, advocating for assessments that prioritize the learning process and support teachers as facilitators rather than sole knowledge providers. The discussion concluded with a consensus on blending best practices with curriculum alignment to ensure fair and comprehensive assessments for all students.

PANEL DISCUSSION-3
Bridging the Gap:
Access to Standardized Education & Assessment for All

Moderator

Dr. Tabassum Naz
Director Schools, Federal Directorate of Education (FDE), Islamabad

Panelists

Mr. Ghulam Shabbir
Chief Operating Officer, Ormi Systems Ltd., Islamabad/AI Expert

Dr. Malik Tauqir Ahmad Khan
Director General (Regional Services), Allama Iqbal Open University (AIOU), Islamabad

Dr. Bashir Khan
Secretary, Federal Board of Intermediate & Secondary Education (FBISE), Islamabad

Prof. Nasrullah Khan Yousafzai
Chairman, Board of Intermediate & Secondary Education (BISE), Peshawar

Ms. Riffat Jabeen
Director, Quality Assurance & Academics, Federal Directorate of Education (FDE), Islamabad

This panel discussion emphasized the need for equitable education across Pakistan, particularly addressing the challenges faced in rural regions. The panelists discussed the balance between distance and standardized education, underscoring the importance of curriculum updates, political support, and adequate resources for transformative change. They highlighted the benefits of e-assessment and AI marking for consistency and wider teacher involvement, which can aid in providing accurate feedback. However, they stressed that teacher training remains crucial, especially in rural areas, to effectively utilize digital systems and bridge learning gaps. Additionally, the discussion underscored the importance of fair and customized assessment practices that address resource disparities between urban and rural students. Collectively, the panelists called for improved teacher training, curriculum development, and infrastructural support to achieve a more inclusive and effective standardized education and assessment system across Pakistan.

CAPACITY BUILDING WORKSHOPS

Capacity Building Workshop 3: "Big Data Analytics in Standardized Assessments for Informed Decisions"

The resource persons emphasized the power of big data in improving educational decision-making and personalized learning. They highlighted that big data can track student performance trends, revealing gender-based learning gaps and supporting instructional improvements. Key components included performance tracking for personalized learning, assessment of teaching effectiveness, and data analysis tools like Excel, SPSS, SAS, and Stata.

They also showcased dashboards comparing data across regions and educational boards, allowing stakeholders to visualize and analyze performance differences. Advanced techniques like predictive modelling and adaptive testing (e.g., Computer Adaptive Testing) were also introduced, illustrating how tailored assessments can respond to individual student needs.

Capacity Building Workshop-4 "Enhancing Teacher and Assessor Competency in Modern Assessment Techniques"

This capacity building workshop focused on advancing assessment techniques toward deeper learning, student engagement, and holistic evaluation. The resource person emphasized the progress in educational assessment over recent years, advocating for comprehensive strategies that align with modern standards. By comparing regional assessment success rates – 74% in India, 75% in Bangladesh, and 92% in Sri Lanka – he highlighted Pakistan's position and the need to enhance its assessment practices.

It was underscored that formative assessments as tools for adaptive teaching, allow educators to respond to individual learning needs. The expert outlined the assessment development process, covering item selection, pilot testing, item banks, and result analysis to ensure reliability and inform continuous improvements, emphasizing that consistent standards and structured frameworks are vital to effective assessment practices.

Closing Ceremony

The closing ceremony of the 2nd IBCC Annual Conference 2024 served as a meaningful conclusion of two days filled with insightful discussions, innovative ideas, and valuable perspectives regarding the future of assessments and digitalization in education. The event brought together eminent figures and leaders from various fields, who highlighted the critical importance of advancing assessment practices and embracing technology to meet the evolving needs of the educational system in Pakistan.

Mr. Mohyuddin Ahmad Wani, Federal Secretary, Ministry of Federal Education and Professional **Training**, highlighted the commitment of the government to support initiatives that bridge the gap between traditional and digital assessments. He also appreciated various initiatives taken by the IBCC to reform the educational assessment in Pakistan and assured all support from his ministry for such endeavors.

The **Guests of Honor**, including **Sardar Masood Khan, Ms. Farah Naz Akbar**, and **Mr. Zamurrad Khan**, each contributed insights that reinforced the importance of collaborative efforts in bringing about sustainable changes in education. They acknowledged the role of IBCC in fostering a forward-thinking approach and stressed the importance of partnerships between government, private sector, and educational institutions to make digital transformation in education a reality.

Dr. Asim Hussain, the **Chief Guest**, addressed the closing ceremony with a potent message on the transformative potential of digitalization in making assessments more transparent, accessible, and aligned with global standards. His remarks emphasized the need for continuous innovation and adaptation within the educational sector to keep pace with the digital advancements.

The closing remarks left participants inspired and motivated to pursue the strategic recommendations discussed during the conference, aiming to elevate the standards of education and assessment in Pakistan.

Conference Recommendations

Based on the conference activities including keynote speeches, panel discussions, capacity building workshops, roundtable discussions and various interactions during the two days conference, the following key recommendations were made:
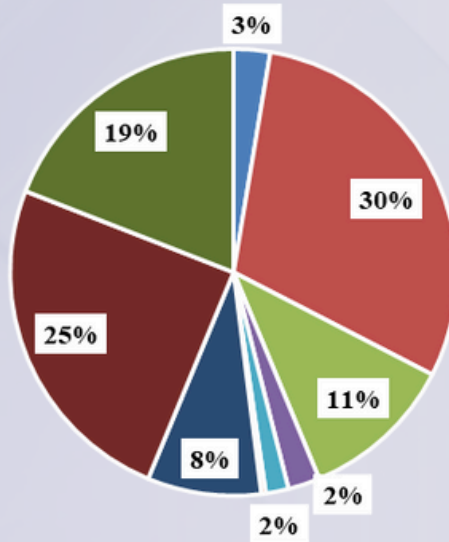
- ✅ Gradually incorporate AI for grading, adaptive testing, and proctoring, with human oversight to ensure fairness and prevent biases.
- ✅ Improve access to technology in rural and underserved areas to ensure equitable access to digital assessment tools.
- ✅ Develop comprehensive programs to build teachers' technical and ethical competencies in digital assessments.
- ✅ Standardize assessments based on the National Assessment Framework (NAF) and align them with Student Learning Outcomes (SLOs) to accurately measure student understanding and skills.
- ✅ Leverage big data and visualization tools for real-time feedback, curriculum enhancement, and targeted interventions; ensure data transparency for accountability.
- ✅ Design assessments to minimize biases and accommodate diverse learning styles, focusing on validity, reliability, and fairness for all students.
- ✅ Collaborate with international assessment bodies and adapt successful frameworks to Pakistan's context, working towards global recognition for local standards.
- ✅ Develop phased implementation plans for new frameworks, focusing on resources, capacity-building, and managing change effectively.
- ✅ Shift from rote memorization to evaluating problem-solving and creativity, moving towards continuous and formative assessments for ongoing feedback.
- ✅ Establish robust data privacy policies and ethical guidelines for AI in education, building trust and protecting student information.
- ✅ Engage policymakers, educators, examination boards, and technology providers in a collaborative environment to support holistic educational reforms.
- ✅ Create networks for educators, assessment experts, and policymakers to exchange best practices, discuss challenges, and foster continuous improvement in assessment methods.
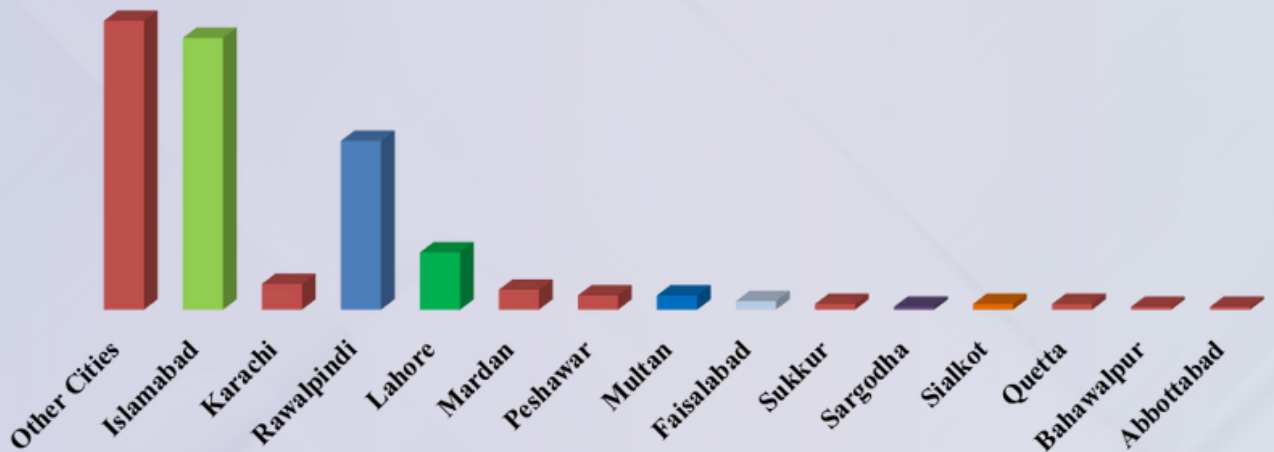
Representation of Participants
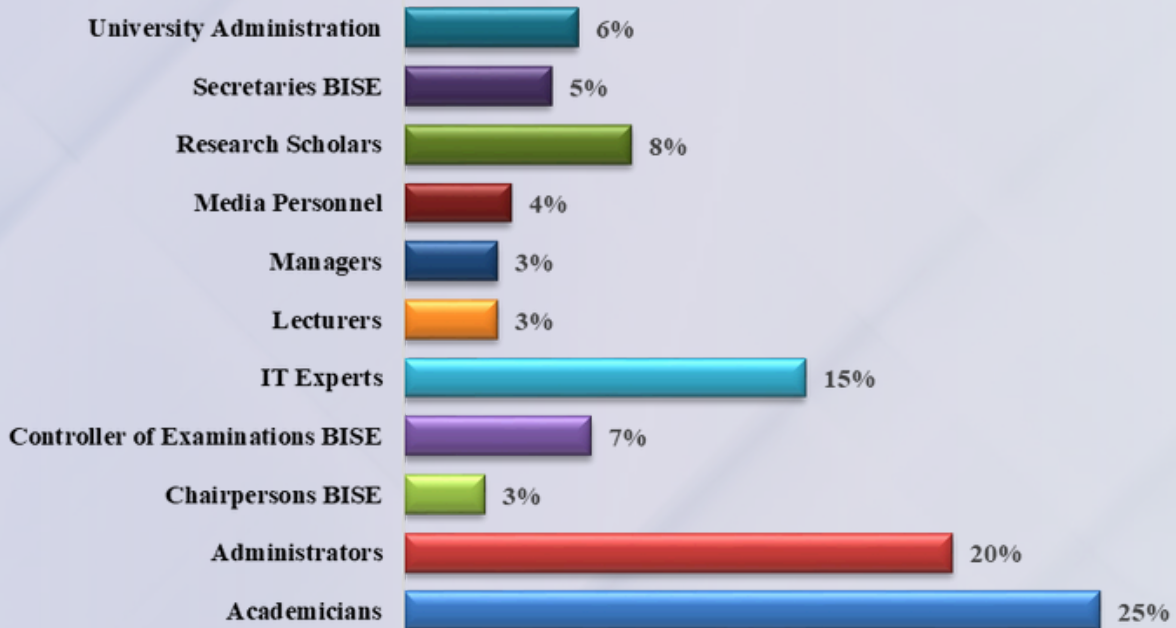
Participants' Organization

Legend:
- Publishers
- Educational Boards/BISEs
- Educational Directorates
- Educational NGOs
- Foreign Examination Boards
- Media Publishers
- R&D Organizations
- Schools & Colleges
- Universities

Pie chart values:
- 3%
- 30%
- 11%
- 2%
- 2%
- 8%
- 25%
- 19%

City-wise Participants

Bar chart categories:
- Other Cities
- Islamabad
- Karachi
- Rawalpindi
- Lahore
- Mardan
- Peshawar
- Multan
- Faisalabad
- Sukkur
- Sargodha
- Sialkot
- Quetta
- Bahawalpur
- Abbottabad

Participants' Profile

Profile	Percentage
University Administration	6%
Secretaries BISE	5%
Research Scholars	8%
Media Personnel	4%
Managers	3%
Lecturers	3%
IT Experts	15%
Controller of Examinations BISE	7%
Chairpersons BISE	3%
Administrators	20%
Academicians	25%

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2ND IBCC ANNUAL CONFERENCE 24

October 23-24, 2024

EMPOWERING FUTURE

Organized By:

Inter Boards Coordination Commission(IBCC)

Ministry of Federal Education and Professional Training
Government Of Pakistan