



INTERNAL QUALITY ASSURANCE CELL GOVERNMENT COLLEGE OF EDUCATION

Institute of Advanced Studies in Education

CLUSTER UNIVERSITY, SRINAGAR

Maulana Azad Road Srinagar (J&K)

(NAAC RE-ACCREDITED GRADE "A" (CGPA 3.24))

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NOTICE

It is for the information of all members of IQAC and Innovation and Action Research Cell (IARC) that the preliminary meeting for the upcoming National Conference on the theme "**Integrating AI & 21st Century Skills in Education**" scheduled to be held on first week of October 2025. The Agenda of the meeting will be as follows:

- **Date finalization**
- **Institutional Collaboration**
- **Identification of Resource Persons**
- **Nomination of members for groundwork for the conference**
- **Discussion on Sub themes**
- **Invitees/ participants**

The meeting will held today (16.9.2025) at 2:00 PM in the conference hall.

Fazi Illahi
Coordinator IARC

Dr. Mohd Yasin Pir
Coordinator IQAC

Prof. (Dr.) Seema Naz
Principal

No: GCOE/ IASE/25/ 1935

Dated: 16/9/2025



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REPORT ON TECHNICAL SESSION-I: TEACHER EDUCATION (12:00 – 01:30 PM)

A Two-Day National Conference on “Integrating AI and 21st-Century Skills in Education” organized by the Innovation and Action Research Cell/IQAC, Government College of Education (IASE), Srinagar, in collaboration with the School Education Department, Kashmir, w.e.f 29th to 30th October, 2025.

The conference aimed to deliberate upon the transformative role of **Artificial Intelligence (AI)** and **21st-century competencies** in reshaping educational practices, curriculum design, and teacher preparation in consonance with the vision of the **National Education Policy (NEP) 2020**.

The **Technical Session-I**, devoted to the theme “**Teacher Education**,” was chaired by **Prof. K. Srinivas**, Head, ICT and Project Management, NIEPA, Ministry of Education, Government of India, New Delhi. The **Discussant** for the session was **Dr. Muzaffar Rasool Bhat**, Sr. Assistant Professor, Department of Computer Science / Centre for Artificial Intelligence, IUST, Awantipora. The session featured several insightful paper presentations focusing on **teacher readiness for AI, integration of 21st-century skills, and the need to re-envision teacher education** in the digital era.

KEY PAPERS AND FINDINGS

Preparing Educators for 21st-Century Skills: Critical Thinking, Collaboration and Creativity: Presented by Toiba Mohi-ud-Din, Research Scholar, School of Education, Central University of Kashmir. This paper emphasized the centrality of the “3Cs” **Critical Thinking, Collaboration, and Creativity** in teacher education. It called for integrating **problem-based learning and collaborative projects** into teacher preparation programmes to foster innovation, adaptability, and inquiry-based learning among educators.

Multidisciplinary and Holistic Learning through Artificial Intelligence: A Theoretical and Humanistic Alignment with NEP 2020: presented by Prof. Mohd Ishaq Shah, Government Degree College, Anantnag. The author explored AI’s potential to promote **multidisciplinary and holistic learning** as envisioned in NEP 2020. The paper demonstrated how AI can enhance **cross-disciplinary inquiry, cognitive flexibility, and ethical reflection**, while cautioning against the philosophical and ethical challenges surrounding its humanistic use in education.

Fostering Four C’s – Critical Thinking, Creativity, Collaboration and Communication for 21st-Century Success in Education: presented by Munazah Hassan, Research scholar, Department of Education, University of Kashmir. This presentation underscored the importance of integrating the 4C’s **Critical Thinking, Creativity, Collaboration, and Communication** into classroom pedagogy. The authors advocated for **pedagogical reforms** that transcend rote learning and nurture **holistic, student-centered education**.

A Journey from Knowledge to Innovation: The Core Competencies of the 21st Century: presented by Masrat Jan, research scholar, School of Education Central University of

Kashmir. Drawing upon international frameworks such as **P21** and **UNESCO's education vision**, this paper discussed strategies for embedding 21st-century competencies into **curriculum, instruction, and assessment**. The authors emphasized shifting from **knowledge transmission to innovation-oriented learning** for fostering global competitiveness.

Re-envisioning Teacher Education Curriculum in the Context of NEP 2020: Integrating Artificial Intelligence and 21st-Century Skills presented by Sharaz Bano, Research Scholar, School of Education Central University of Kashmir, Jammu and Kashmir. This paper examined the need to **restructure teacher education curricula** in light of NEP 2020 by incorporating **AI literacy, computational thinking, and digital pedagogy**. The author proposed a **competency-based model** integrating AI with **socio-emotional learning, collaboration, and adaptability**, key attributes of 21st-century education. Through conceptual analysis and a review of global practices, the paper outlined strategies such as **experiential learning, interdisciplinary projects, and data-informed assessments**. The findings highlighted that integrating AI and 21st-century skills is essential to prepare **empowered educators** capable of guiding learners toward **ethical and responsible digital citizenship** in an AI-driven era.

SESSION SUMMARY AND REFLECTIONS

The **Chairperson, Prof. K. Srinivas**, lauded the presenters for their forward-looking perspectives and highlighted that **technology integration must always serve pedagogical and ethical purposes**. The **Discussant, Dr. Muzaffar Rasool Bhat**, synthesized the deliberations by emphasizing that **AI and 21st-century skills should complement not replace the human dimension of education**.

The collective discussion brought forth several key takeaways:

- The urgent need to **reimagine teacher education curricula** by embedding **AI literacy and 21st-century competencies**.
- The importance of **experiential, collaborative, and problem-based learning** aligned with the vision of **NEP 2020**.
- The necessity of addressing **ethical, infrastructural, and policy considerations** for AI-driven reforms.
- The evolving role of teachers as **facilitators of innovation, critical inquiry, and reflective practice**.

The session concluded with an engaging exchange of ideas, reaffirming that the future of teacher education lies in harmonizing **technological advancement with human values and pedagogical integrity**.

Sd/-

Prof. Mohd. Ishaq Dar
Dr. Mansoor Ahmad Lone
Rapporteurs

Sd/-

Dr. Mohd. Yasin Pir
Coordinator IQAC

Sd/-

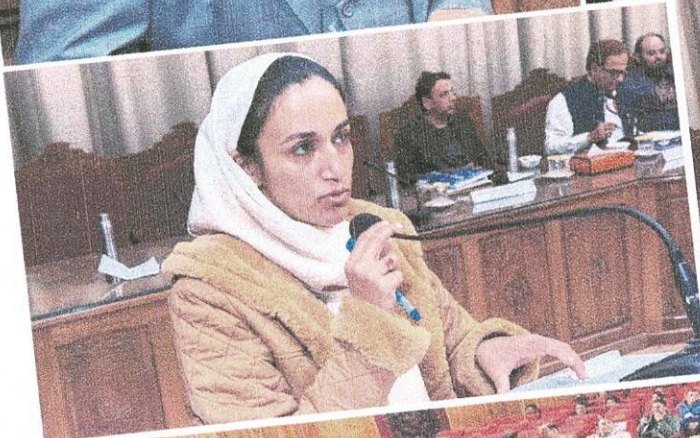
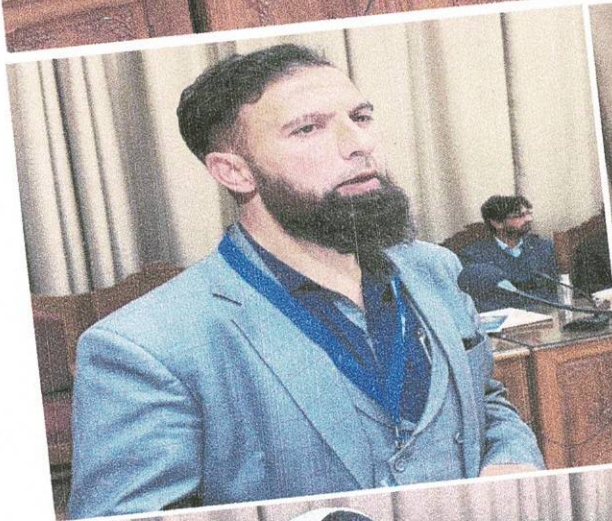
Mr. Fazl Illahi
Coordinator Conference

Sd/-

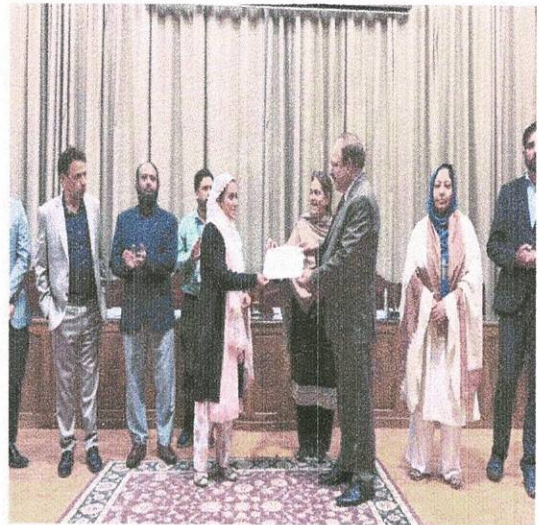
Prof. (Dr.) Seema Naz
Principal

No:- GCOE/IASE/25/2382, Dated: - 29/10/2025

Photographs



PHOTOGRAPHS







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REPORT ON TECHNICAL SESSION-II: HIGHER EDUCATION

A Two Day National Conference on “Integrating AI and 21st-Century Skills in Education” was organized by the Innovation and Action Research Cell/IQAC, Government College of Education (IASE), Srinagar, in collaboration with the School Education Department, Kashmir, w.e.f 29th to 30th October, 2025.

The conference aimed to deliberate upon the transformative role of **Artificial Intelligence (AI)** and **21st-century competencies** in reshaping educational practices, curriculum design, and teacher preparation in consonance with the vision of the **National Education Policy (NEP) 2020**.

The **Technical Session-II**, based on the theme “Higher Education” started at 2:35 pm in the college auditorium. The Chairperson for the session was **Dr. Mohammad Ahsan Chisti**, Associate Professor, Department of Computer Science, NIT Srinagar and the discussant was **Dr. Javaid Iqbal**, Head, Department of Computer Science University of Kashmir. The session featured several papers based on the interrelationship of Higher Education and AI. A total number of four (4) papers were presented in this session.

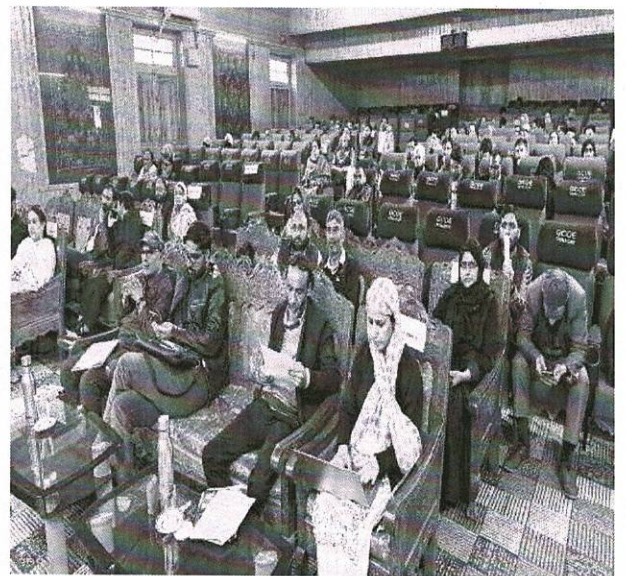
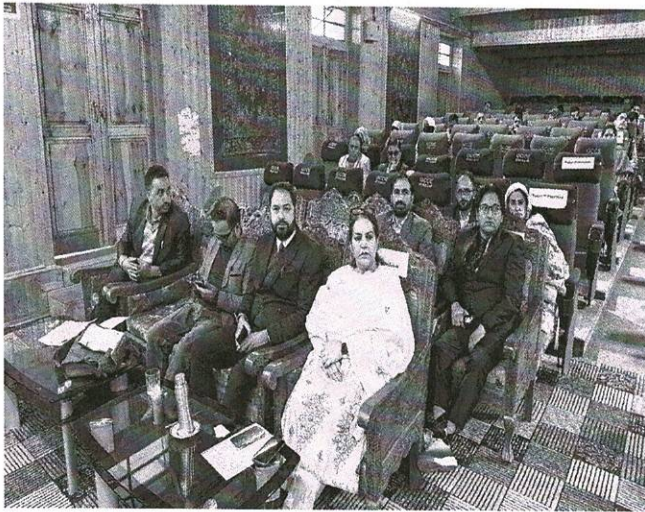
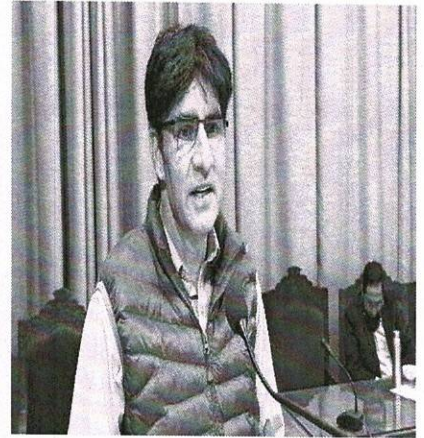
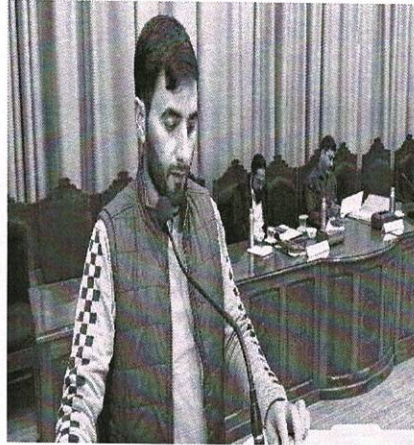
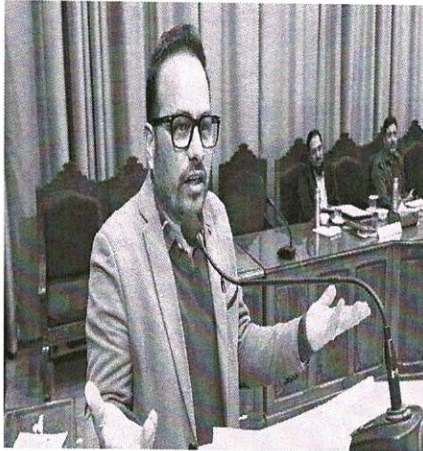
Key Papers and Findings

The first paper was presented by **Dr. Manzoor Ahmad Parey** titled “*The Double Edged Sword: AI integration and the erosion of metacognitive skills in educational spaces*”. The paper discussed the dangers and impact of AI reliance on metacognitive faculties, especially creativity, critical thinking and self-reliance of educators and students. It argued that the students are using AI for information attainment & task completion which has consequently led to erosion of self-confidence and leads to doubt and discomfort and decline in creativity within the students.

Second paper was presented by **Dr. Showket Rashid Wani**, titled “*Integrating AI feedback Bot for assignment evaluation in distance education: A case study of diploma in pre-primary teacher training programme.*” The author explored that as there is consistent demand for feedback in higher education this has led to adoption of AI tools for assessment support. The paper presented a practical account of how a feedback BOT can be used to evaluate assignments submitted by students enrolled in distance education with efficiency, accuracy and responsibility over traditional and manual evaluation. Thus, AI feedback in distance education is suitable and student centric assessment tool.

Third paper titled “*Employability and entrepreneurship in AI driven workspaces*” presented by **Dr. Syed Murtaza Fazal Ali**. The presenter argued that the AI transformation at workspaces reshapes the demands for employability and presents new opportunities and challenges for entrepreneurs. AI is revolutionizing entrepreneurship as it generates new entrepreneurial opportunities and alters

PHOTOGRAPHS





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Report on Technical Session III (School Education)

The Technical Session III of the Two-Day National Conference on "Integrating AI & 21st Century Skills in Education with reference to School Education" focused on exploring the multifaceted role of Artificial Intelligence (AI) and the integration of 21st-century skills in transforming educational practices. The session was chaired by **Prof. (Dr.) Mohammad Amjad**, while **Prof. Rashid Ashraf Malik** served as the discussant. The session brought together eminent scholars and practitioners who shared insightful perspectives, empirical research, and innovative classroom experiences aimed at reshaping the school education landscape of Jammu and Kashmir.

The session began with opening remarks from the Chairperson, who highlighted the growing significance of AI in education and the urgent need to align teaching methodologies with the demands of the 21st century. A total of ten research papers were presented, each addressing a specific aspect of the central theme.

The first paper, "School Adjustment of Specially Abled Senior Secondary School Students: Responsible for Inclusion and Equitable School Education – Role of AI" by Firdoos Ahmad, emphasized how AI-driven tools can foster inclusion and equitable learning opportunities for specially-abled students through adaptive technologies and personalized support systems. The paper revealed that AI-based assistive technologies significantly enhance the academic adjustment, motivation, and confidence of specially-abled learners, thereby promoting inclusion and equity in school education.

The second paper, "Integrating 21st Century Skills in Education for Sustainable Development: Reflections from Curricula, Pedagogy & Assessment Patterns in Educational Institutions of J&K" by Dr. Fayaz Ahmad Bhat and Dr. Kulsooma Gull (DIET Srinagar), explored how critical thinking, creativity, collaboration, and communication can be systematically incorporated into curriculum design and assessment frameworks to achieve sustainable educational outcomes. The authors found that integrating 21st-century skills into curricula and assessments enhances student engagement, creativity, and adaptability, but requires significant curricular flexibility and teacher capacity building.

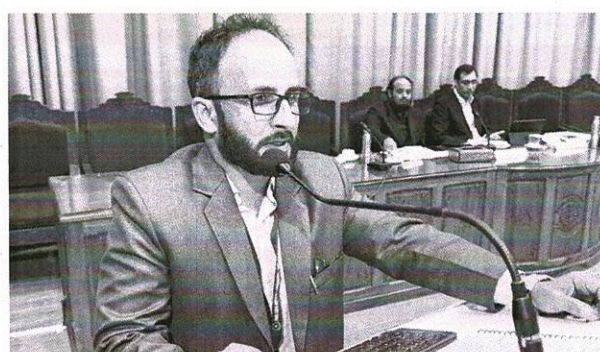
The third paper, "Cultivating 21st Century Skills at Foundational Stage – Critical Thinking, Collaboration, Creativity and Communication" by Dr. Urfana Amin, highlighted the importance of developing essential life skills from the foundational years through engaging, inquiry-based pedagogies. The findings indicated that introducing critical thinking and collaborative learning at

Following the presentations, the discussant Prof. Rashid Ashraf Malik provided an insightful synthesis of the papers, appreciating their academic depth and practical relevance while offering constructive suggestions to the presenters. The session concluded with an interactive discussion on challenges such as teacher preparedness, digital infrastructure, ethical considerations in AI use, and the need for continuous professional development in AI-integrated pedagogy.

In his concluding remarks, Prof. (Dr.) Mohammad Amjad commended the presenters for their scholarly contributions and emphasized the importance of collaborative research and innovation in strengthening AI integration across educational stages. The key takeaway from the session was that AI, when ethically and effectively integrated, can enhance inclusion, personalization, and skill-based learning. The session was highly engaging, intellectually stimulating, and forward-looking, reflecting a collective vision of building technologically empowered, inclusive, and skill-oriented educational ecosystems for the 21st century.

Sd/-
Fazl Illahi
Conference Coordinator

Sd/-
Prof. (Dr) Seema Naz
Principal





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Report on Panel Discussion on Integrating AI and 21st Century Skills in School, Teacher, and Higher Education

Date: 30-10-2025

Time: 2:00 PM – 3:30 PM

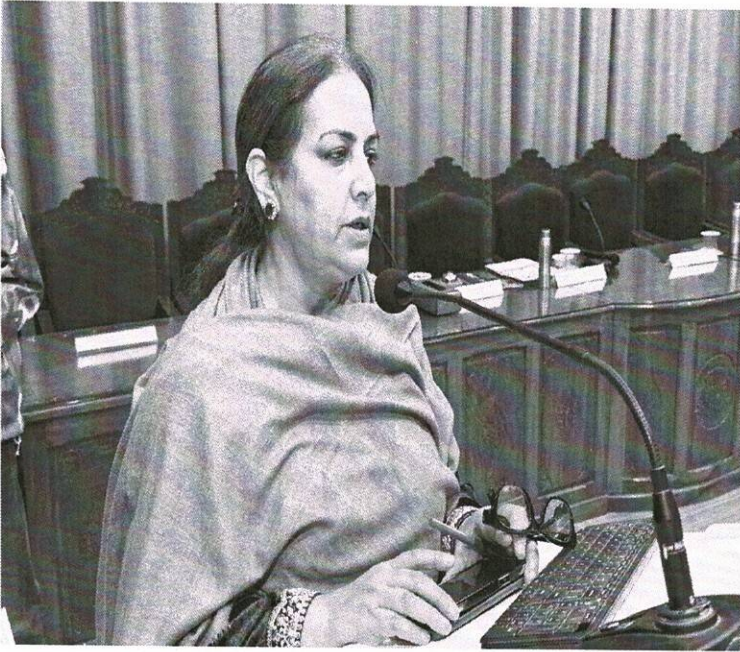
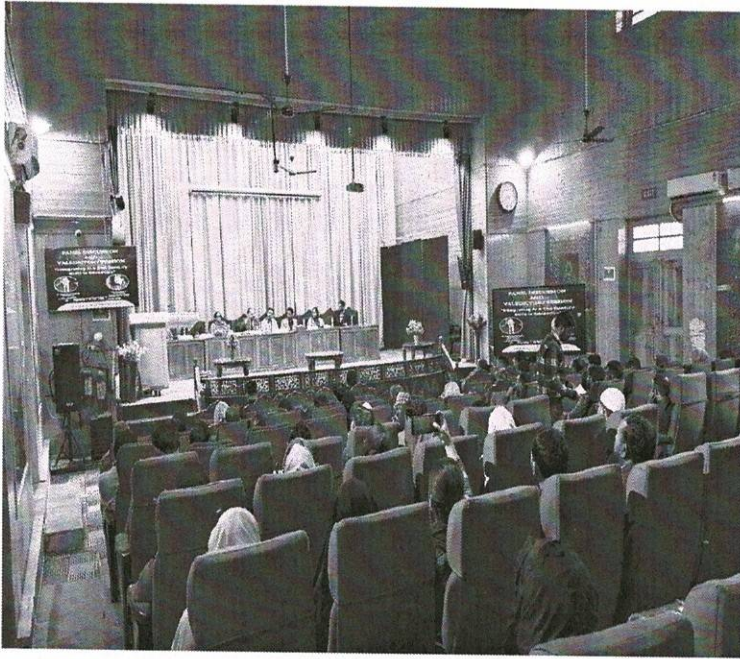
Chairperson: Prof. (Dr.) Shakil Ahmad Romshoo, Vice Chancellor, IUST, Awantipora

Venue: Auditorium, GCOE/IASE

Theme: *Integrating AI and 21st Century Skills in School, Teacher, and Higher Education*

A panel discussion on the theme “*Integrating AI and 21st Century Skills in School, Teacher, and Higher Education*” was held from 2:00 PM to 3:30 PM under the chairmanship of **Prof. (Dr.) Shakil Ahmad Romshoo**, Vice Chancellor, Islamic University of Science and Technology (IUST), Awantipora. The session commenced with **opening remarks by the Worthy Principal, Prof. (Dr.) Seema Naz**, who formally welcomed the esteemed guests and participants. She presented a brief overview to on the conference proceedings to the Chairperson, the panelists and the audience. In her remarks, Prof. Naz emphasized that teachers and institutions must synergize Artificial Intelligence into teaching pedagogy, as it remains a novel concept at the school and college level. In his introductory remarks in the panel discussion, **Prof. (Dr.) Shakil Ahmad Romshoo** highlighted that before introducing AI to students, teachers and educators must first familiarize themselves with it. He underlined that institutions must go beyond just *knowledge dissemination*, as they not only generate knowledge but also drive entrepreneurship and innovation. He further stated that India has made a bold commitment to becoming *Viksit Bharat by 2047*, and several national missions—such as the *National AI Mission*—have been launched to promote startups and boost technological growth. The chairperson opened the panel discussion while emphasizing that true progress will come only through active participation in such national initiatives.

The discussion brought together distinguished panellists from academia and industry, who shared valuable insights on integrating AI into the educational ecosystem. The following experts participated in the discussion:





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REPORT ON VALEDICTORY SESSION

Date: 30-10-2025

Time: 3:30 PM – 4:00 PM

Venue: Auditorium, GCOE/IASE

The **Valedictory Session** of the conference commenced at **3:30 PM** in the college auditorium, marking the successful conclusion of the day's deliberations. The session was presided over by **Prof. (Dr.) Shakil Ahmad Romshoo**, Vice Chancellor, Islamic University of Science and Technology (IUST), Awantipora.

The proceedings began with a **comprehensive report presentation** by **Mr. Fazal Illahi**, Programme Coordinator, who provided a detailed summary of the conference proceedings, including highlights from various technical sessions and panel discussions. He commended the active participation of experts, faculty members, and students, and acknowledged the insightful contributions made throughout the event. The **Valedictory Address** was delivered by **Prof. (Dr.) Shakil Ahmad Romshoo**, who expressed his sincere appreciation to the **Worthy Principal, Prof. (Dr.) Seema Naz**, for organizing the conference and providing a platform for meaningful academic exchange. In his address, Prof. Romshoo elaborated on how *Artificial Intelligence* and *21st-century skills* have been effectively integrated under the *National Education Policy (NEP) 2020*. He highlighted the establishment of **Skill Labs at IUST Awantipora** as a significant step toward fostering innovation, employability, and hands-on learning among students.

Following the address, **certificates were distributed** among the paper presenters and participants in recognition of their contributions and participation in the conference. The session concluded with a **Vote of Thanks** proposed by **Prof. Ajaz Ahmad Dar**, Faculty Member, IASE, who expressed gratitude to the Chairperson, dignitaries, organizers, and all attendees for their valuable support and participation. The **rapporteurs** for the session were **Mr. Mehraj Din Dar** and **Mr. Syed Riyaz Ahmad Shah**, Faculty Members, IASE, who diligently recorded and compiled the proceedings of the session.

Sd/-
Rapporteur

Sd/-
Programme Coordinator

Sd/-
Coordinator IQAC

Sd/-
Prof (Dr.) Seema Naz
Principal

No: GCOE/IASE/2025/2401

Dated: 31/10/2025

labour market. The presenter also argued that AI can automate existing tasks thus contributing to inequality and has the power to transform employment opportunities worldwide.

Forth paper was presented by **Arif Hussain Reshi** and **Javid Aziz Bhat** titled "*AI and linguistic diversity: revitalizing the languages of Jammu and Kashmir through education and technology*". This paper explores how AI can transform linguistic invisibility into presence by embedding regional tongues within technology- integrated education. The language mismatch undermines both policy goals and learner engagement can be eradicated by making use of technology ethically and locally. As such AI can be used as a strong tool to revive and preserve the linguistic diversity.

Session Summary and Reflections

The **Chairperson, Dr. Mohammad Ahsan Chisti**, lauded the presenters for their forward-looking perspectives and highlighted that **technology integration must always serve pedagogical and ethical purposes. He further explained that anything that has merits surely comes with demerits.** The **Discussant, Dr. Javaid Iqbal** synthesized the deliberations by emphasizing that **AI has to be used properly, intelligently and ethically for the benefit of the human race. As it is impossible for people to escape the use of AI in contemporary period, therefore, it also needs philosophical deliberations and debates so that the 21st skills of communication, critical thinking, collaboration and creativity can be achieved and enhanced accordingly.**

The session concluded with an engaging exchange of ideas between the participants, paper presenters, the chairperson and discussant, reaffirming that the improper and unethical use of AI can have a negative impact on the society and human beings, still its importance cannot be denied as AI is the future of universe.

Sd/-
Prof. Nahida Naseem
Rapporteur

Sd/-
Dr. Mohd. Yasin Pir
Coordinator IQAC

Sd/-
Mr. Fazl Illahi
Coordinator Conference

Sd/-
Prof. (Dr.) Seema Naz
Principal

No:- GCOE/IASE/25/2392

Dated: - 30/10/2025

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