

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))

Email: principal-ias@jk.gov.in / gcoe.sgr@gmail.com / [http:// www.gcoekmr.edu.in](http://www.gcoekmr.edu.in)



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

Photographs

