GOVERNMENT OF INDIA
MINISTRY OF EDUCATION
DEPARTMENT OF SCHOOL EDUCATION AND LITERACY
RAJYA SABHA
UNSTARRED QUESTION NO. 2910
ANSWERED ON 26/03/2025

Modernization and integration of AI tools in education system

2910 **Shri Kartikeya Sharma:**

Will the Minister of *Education* be pleased to state:

(a) the steps taken by the Ministry to modernize classrooms and provide support to State Governments for the same;

(b) whether the Ministry has made any plan for using AI as an assistant tool for lectures, monitoring, evaluation and teaching assistant, if so, the details thereof; and

(c) whether National Education Policy (NEP) has provisions for developing capabilities of the teachers in the technologies and pedagogies of the future, if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF EDUCATION
(SHRI JAYANT CHAUDHARY)

(a):   The Department of School Education and Literacy is implementing an integrated centrally sponsored scheme for School education- Samagra Shiksha from the year 2018-19. The Scheme has been aligned with the recommendations of the National Education Policy (NEP) 2020 and aims to ensure that all children have access to quality education with an equitable and inclusive classroom environment, which should take care of their diverse background, multilingual needs, different academic abilities and make them active participants in the learning process.

ICT and Digital Initiatives component of Samagra Shiksha covers Government and Aided Schools having classes VI to XII which provides basic infrastructure to the students and transform the classrooms into tech-driven class. Under this component financial assistance is provided for establishing ICT Lab and Smart Classrooms in schools. The non-recurring/recurring grant under 'ICT and Digital Initiatives' is available to the States and UTs as per the norms of the Scheme.

As per PRABANDH Portal, till date 1,42,745 ICT Labs and 1,31,548 Smart Classrooms have been sanctioned to State/UT Governments.

(b):   Department of School Education & Literacy, has undertaken several initiatives to integrate Artificial Intelligence (AI) as an assistant tool for teaching, monitoring, evaluation, and teacher support.

(i). NISHTHA Training Program: The National Initiative for School Heads' and Teachers' Holistic Advancement (NISHTHA) program is designed to train teachers and school principals. Delivered through the DIKSHA portal, this program incorporates AI-driven features for self-paced learning and monitoring.

(ii). DIKSHA Portal: DIKSHA (Digital Infrastructure for Knowledge Sharing) is a national digital platform providing quality e-content for school education. The platform integrates AI-enabled tools that assist teachers in teaching and assessment, improving overall learning outcomes.

(iii). The Central Institute of Educational Technology (CIET), under NCERT, has launched online training programs on "Artificial Intelligence for Education." These programs aim to educate teachers, trainers, and students on AI applications in education.

(c):   NEP 2020 recommends that teachers be given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. These have to be offered in multiple modes, including in the form of local, regional, state, national, and international workshops as well as online teacher development modules.

Each teacher is expected to participate in at least 50 hours of Continuous Professional Development (CPD) opportunities every year for their own professional development, driven by their own interests. CPD opportunities, in particular, to systematically cover the latest pedagogies regarding foundational literacy and numeracy, formative and adaptive assessment of learning outcomes, competency-based learning, and related pedagogies, such as experiential learning, arts-integrated, sports-integrated, and storytelling-based approaches, etc.

The Department of School Education and Literacy has also launched a National Mission to improve learning outcomes at the elementary level through an Integrated Teacher Training Programme called NISHTHA – National Initiative for School Heads' and Teachers' Holistic Advancement under the Centrally Sponsored Scheme of Samagra Shiksha. NISHTHA is a capacity building programme for "Improving Quality of School Education through Integrated Teacher Training". NISHTHA online was launched using DIKSHA platform in October, 2020. Subsequently, NISHTHA also extended to Foundational Literacy and Numeracy and Early Childhood Care and Education (ECCE) for training of master trainers.

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