GOVERNMENT OF INDIA
MINISTRY OF EDUCATION
DEPARTMENT OF SCHOOL EDUCATION & LITERACY

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STARRED QUESTION NO. 187

ANSWERED ON 17.12.2025

AI education at the school level

187 # **Smt. Maya Naroliya:**

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

(a) whether Government is developing guidelines for integrating Artificial Intelligence (AI) education at the school level, if so, the details thereof;

(b) the classes for which AI-related learning outcomes or modules are to be introduced;

(c) the measures taken to build teacher capacity for implementing AI-based curriculum; and

(d) whether NCERT is collaborating with industry or academia to design age-appropriate AI content, if so, the details thereof?

ANSWER

MINISTER OF EDUCATION

(SHRI DHARMENDRA PRADHAN)

(a) to (d) A statement is laid on the Table of the House.

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(a) to (d): The National Education Policy (NEP) 2020 has emphasized the importance of AI and its role in school curriculum. Under "*Curricular Integration of Essential Subjects, Skills, and Capacities*", the policy mentions that "*4.24. Concerted curricular and pedagogical initiatives, including the introduction of contemporary subjects such as Artificial Intelligence, Design Thinking, Holistic Health, Organic Living, Environmental Education, Global Citizenship Education (GCED), etc. at relevant stages will be undertaken to develop these various important skills in students at all levels.*"

The Ministry of Education (MoE) is progressively integrating Artificial Intelligence (AI) into school education to enhance learning outcomes, improve accessibility, and strengthen pathways for employability and vocational readiness. The National Curriculum Framework for School Education (NCF-SE) 2023 views AI as a core 21st-century skill, giving students computational thinking and problem-solving for a fast-changing job market. Accordingly, DoSE&L has directed the National Council of Educational Research & Training (NCERT) and Central Board of Secondary Education (CBSE) to collaborate on developing age-appropriate, grade-specific curriculum framework for "Computational Thinking Integrating Artificial Intelligence" for K-12 and defining the modalities for implementing / delivering that curriculum.

The existing NCERT textbooks of Computer Science and Informatics Practices discuss about AI, IoT and other emerging technologies. Further, as a follow-up to the NEP 2020 and NCF-SE 2023, NCERT has constituted a Textbook Development Team to develop syllabi and textbooks of Artificial Intelligence for Grades 11 and 12. NCERT's new textbooks for grades 3-8 integrate components of computational thinking across subject areas. At foundational stage, e-Jaadui Pitara has been developed, which is supported by three AI bots i.e. Katha Sakhi, Teacher Tara and Parent Tara, specifically for parents and teachers as it empowers them to create engaging, enjoyable, and interactive learning experiences for children aged 3-8 years. Further, Central Institute of Education Technology (CIET), NCERT under digital education initiative, has introduced personalized adaptive learning features in Digital Infrastructure for Knowledge Sharing (DIKSHA), in respect of higher grades.

AI has also been integrated as a formal component of school-level skill education, through project-based / experiential learning in Kaushal Bodh. NCERT has included projects such as

Animation and Games, AI Assistant, etc in the vocational education textbook for Middle School. These projects include the use of AI tools. In addition, SOAR (Skilling for AI Readiness) initiative has been launched which comprises National Skills Qualification Framework (NSQF)-aligned modules for students of classes 6 to 12 covering fundamental AI concepts, practical programming, ethical and responsible AI usage, and career opportunities in technology. For educators, a separate module provides comprehensive training in AI concepts, pedagogical strategies, and practical classroom application.

To ensure that educators remain informed about emerging technologies, the Ministry and NCERT are organizing regular capacity building/consultation workshops with stakeholders. These workshops are aimed at identifying innovative, education-specific AI solutions and understanding best practices in responsible AI deployment. NCERT conducts online webinars encompassing topics related to creation and dissemination of e-contents, Content-Pedagogy-Technology integration, use of Information and Communication Technology (ICT) in teaching-learning and assessment, Open Educational Resources (OER), use of various ICT tools in teaching learning and assessment, OER, use of ICT tools, creation of AR/VR contents, mobile app and AI based platforms etc. Details of the webinars and workshops conducted are available at https://ciet.ncert.gov.in/webinar The DIKSHA team is also continuously working on incorporating new AI-based features and tools to support teachers in classroom instruction, assessment, and personalized learning. Furthermore, NCERT regularly conducts AI Awareness, Ethical Usage, & AI Tools Training for NCERT Faculties. In addition, relevant self-paced online courses on Artificial Intelligence are offered by CBSE and NCERT. Autonomous bodies like Navodaya Vidyalaya Samiti and Kendriya Vidyalaya Sangathan provide training and capacity-building programs for its teachers through various reputed institutes such IITs to ensure the effective integration of AI in classrooms.

AI is a cutting-edge technology and is continuously evolving through research and usage. A Centre of Excellence for AI in Education is being set up by Ministry of Education, which in collaboration with consortium of industry partners and start-ups would facilitate the latest research and universal best case practices to be incorporated in school curriculum for pedagogical skill interventions. Further, NCERT and CBSE are partnering with leading industry and academic institutions including Intel, IITs, Sector Skill experts and Bhashini to design high-quality, contextual, and ethically aligned AI content for schools. These initiatives collectively support the integration of AI education, capacity building of teachers, and responsible adoption of emerging technologies in schools.

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