

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

LOK SABHA
UNSTARRED QUESTION NO. 2425
ANSWERED ON 15.12.2025

Artificial Intelligence in School Education

†2425. Shri Sunil Kumar:

Will the Minister of EDUCATION be pleased to state:

- (a) the details of current status of computer education in primary, middle and higher secondary schools in the country, where digital literacy and programming skills are imparted;
- (b) whether the Government has any plan to introduce Artificial Intelligence (AI) in school education, including curriculum and pedagogy across the country including Bihar;
- (c) if so, the details of steps/measures taken by the Government to train teachers in AI education and to ensure its effective implementation;
- (d) the measure taken by the Government to promote coding and programming skills among school students in Bihar;
- (e) whether the Government has any plan to integrate emerging technologies such as AI, machine learning and data science into the school curriculum, if so, the details thereof;
- (f) whether the Government has any plan to make AI education accessible to students in rural and disadvantaged areas of West Champaran district of Bihar, if so, the details thereof; and
- (g) the details of steps taken by the Government to ensure computer education for students with disabilities?

ANSWER

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

(a) to (g): 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 existing NCERT textbooks of Computer Science class XI (Chapter 3, <https://ncert.nic.in/textbook.php?kecs1=ps-11>) and Informatics Practices class XI (Chapter 2, <https://ncert.nic.in/textbook.php?keip1=ps-8>) talks about AI, IoT and other emerging technologies.

As a follow-up to the NEP 2020 and National Curriculum Framework for School Education (NCF-SE) 2023, the National Council of Educational Research & Training (NCERT) has constituted a Textbook Development Team to develop syllabi and textbooks of Artificial Intelligence for Grades 11 and 12. NCERT has also included a project on Animation and Games in the vocational education textbook for Grade 6. This project includes the use of AI tools.

The Government of India has launched the SOAR (Skilling for AI Readiness), a national initiative in alignment with the objectives of NEP 2020, the National Programme on AI (NPAI) Skilling Framework and Viksit Bharat 2047 vision of digital empowerment and inclusive growth. SOAR is aimed at embedding AI awareness and foundational competencies among school students (Classes 6–12) and building AI literacy among educators. The programme seeks to bridge the digital divide by ensuring equitable access to AI education across geographies, thereby supporting the national agenda of inclusive, future-ready skilling. The SOAR curriculum comprises four progressive National Skills Qualification Framework (NSQF)-aligned modules. For students of classes 6 to 12, three distinct micro-credentials: (i) AI to be Aware, (ii) AI to Acquire, and (iii) AI to Aspire, are offered, each of 15 hours duration, amounting to 45 hours in total. These cover fundamental AI concepts, practical programming, ethical and responsible AI usage, and career opportunities in technology. For educators, one 45-hour module titled AI for Educators provides comprehensive training in AI concepts, pedagogical strategies, and practical classroom application.

All Jawahar Navodaya Vidyalaya (JNVs) are equipped with computer labs with digital devices (Computer, Laptop & Tablet) and other peripherals along-with good internet connection to ensure digital literacy for all students. In the Navodaya Vidyalaya Samiti (NVS), online training programmes on “Building Synergies for AI in Education”, organised in collaboration with Intel, were conducted, during which three programmes were held and 607 teachers of different Navodaya Vidyalayas were trained.

In addition, relevant self-paced online courses on Artificial Intelligence offered by CBSE/NCERT are regularly shared with Navodaya Vidyalaya teachers to support continuous professional learning. Computer Science subject and Skill subjects like Information Practices are offered in Navodaya Vidyalayas including Navodaya Vidyalayas of Bihar, to promote coding and programming skills among the school students at secondary/ Sr. Secondary level. 23 Navodaya Vidyalayas of Bihar offered Computer Science/ IP in session 2024-25. All students including CwSN (Children with special needs) enrolled in Navodaya Vidyalayas are provided Computer/Digital Education.

Further, the Kendriya Vidyalaya Sangathan (KVS) follows the AI curriculum prescribed by the Central Board of Secondary Education (CBSE) for class VI onwards in all KVs. Computer Education/Digital Literacy is introduced from Class III onwards in all Kendriya Vidyalayas (KVs) across the country. Further KVS provides training and capacity-building programs for its teachers through various reputed institutes such as Indian Institute of Technology (IITs) and NCERT to ensure the effective integration of AI in classrooms.

Moreover, the Ministry of Education is implementing a National Mission to improve learning outcomes at the School Education level through an integrated teacher training programme

called ‘National Initiative for School Heads’ and Teachers’ Holistic Advancement’ (NISHTHA). NISHTHA courses have been designed and are run for Elementary, Secondary, Foundational Literacy and Numeracy (FLN), Early Childhood Care and Education (ECCE) and Educational Technology and are offered online by NCERT on the DIKSHA platform using high-quality professionally made e-content.

Digital Infrastructure for Knowledge Sharing (DIKSHA) is the Nation’s digital platform for providing quality e-content for school education in States/UTs along with QR coded Energised Textbooks (ETBs) for all grades (One Nation, One Digital platform). The platform has recorded 95,925 Daily Active Users, with a total of 2.02 crore registered users. There have been 565.25 crore learning sessions and 6,560.79 crore learning minutes. Additionally, DIKSHA hosts 6,778 energized textbooks and 3.69+ lakh e-contents. The total number of course enrolments stand at 18.36 crore, with 14.63 crore completions to date. Bihar has 213 ETBs, 6,745 e-contents, 49.71 crore learning sessions, 612.59 crore learning minutes, 11.47 lakh registered users, and 269 courses.

It is also emphasized that DIKSHA is equipped with assistive features like Indian Sign Language (ISL) videos, audio contents which ensures accessibility for learners with special needs and supports students, teachers, and parents nationwide. These resources support learners with hearing and visual impairments by providing curriculum-aligned content in formats tailored to their needs, promoting equitable access to education for all. The Read Aloud feature on DIKSHA enables text-to-speech conversion, enhancing content accessibility. It is particularly beneficial for students with visual impairments or reading difficulties, allowing them to listen to the text and engage with learning materials more effectively. Also, a dedicated vertical titled “Equitable and Inclusive e-Education – Learning for All” has been introduced on DIKSHA (<https://diksha.gov.in/cwsn.html>) to promote inclusive education for learners with diverse needs. This section hosts 3,000+ e-contents, including curriculum-aligned ISL videos, ISL glossary terms, audio textbooks, and various guidelines and policy documents.

The Government of Bihar has informed that the State Council of Educational Research and Training (SCERT) has taken initiatives to formulate the plan to integrate emerging technologies into the school curriculum and to ensure inclusive education in all schools across the state. The SOAR initiative is implemented in Navodaya Vidyalayas in Bihar including West Champaran district of Bihar, CBSE prescribed AI curriculum is followed in 51 KVs in the state of Bihar, including KV Bettiah in the West Champaran district of Bihar.

The Ministry of Education implements Information and Communication Technology (ICT) and Digital initiatives under Samagra Shiksha to enhance digital learning in Government schools across the country. The initiatives aim to enhance the quality of education by integrating technology into learning and teaching processes.

Further, to facilitate the online learning by all students, a comprehensive initiative called ‘PM eVidya’ was initiated as part of ‘Atma Nirbhar Bharat Abhiyaan’ on 17th May, 2020, which unifies all efforts related to digital/online/on-air education to enable multi-mode access to education across the country. States/Union Territories (UTs) collaborate with NCERT to utilise, monitor and evaluate the effectiveness of these initiatives as per their requirements.

PM eVidya includes 200 DTH TV Channels allotted to States/UTs/Autonomous Bodies (ABs)/Other Ministries and 393 Radio channels to enable them to provide supplementary education as per their requirement in various Indian languages for classes 1-12. As part of PM eVidya, 5 Channels (DD PM eVidya 63 to 67) have been allocated to the state of Bihar and 3000 + video contents equalling 1375 hours+ disseminated through these channels.

ePathshala is a platform developed by NCERT and the Ministry of Education, which provides access to educational resources, including NCERT curriculum aligned textbooks, audio-visual materials, and teacher training modules, in multiple languages. These resources are accessible via mobile apps and the web, facilitating learning across various devices. This application is available to all the students of the country.

Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) portal provides high-quality content to learners free of cost with the approach of “Anyone, Anywhere, Anytime Learning”. SWAYAM portal provides high-quality educational content across various domains, curated by premier Institutions for a well-rounded learning experience. NCERT SWAYAM Portal has 28 courses in 11 subjects for 11th and 12th classes, the cumulative enrolments have crossed 5 lakh mark. Furthermore, to prepare students for emerging technologies such as Artificial Intelligence (AI), Advanced Robotics, CRISPR, and other frontier areas, the Ministry of Education has undertaken several initiatives as following:

- Implementation of the National Education Policy (NEP) 2020 which emphasizes multidisciplinary, technology-integrated learning with a strong focus on coding, AI, data science, design thinking, computational thinking, and experiential learning from the school level onward.
- Nationwide capacity-building programmes for teachers and students through online AI Series, workshops, and training initiatives in collaboration with industry and technical agencies.
- 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. 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.
- Teacher sensitization/ orientation sessions help teachers and academic teams understand AI capabilities, limitations, ethical considerations, and safe-use guidelines, enabling them to integrate AI tools responsibly into their pedagogical practices
