

**PRAGYATA Guidelines on Digital Education**

Keeping in view the availability of digital infrastructure, guideline briefs on various modes of digital education including online mode that depends more on availability of internet, partially online mode that utilizes the blended approach of digital technology and other offline activities, partial and offline mode that utilizes television and radio as a major medium of instruction of education. The guidelines can be accessed at: [https://mhrd.gov.in/sites/upload\\_files/mhrd/files/pragyata-guidelines\\_0.pdf](https://mhrd.gov.in/sites/upload_files/mhrd/files/pragyata-guidelines_0.pdf)

(c) Mapping of the students is being done school wise and accordingly, the state governments have been directed to act based on the situation prevailing at every place to meet the demands of all students.

In order to enable online education benefit to the children of every category and teachers, Learning Enhancement Guidelines have been issued.

[https://www.mhrd.gov.in/sites/upload\\_files/mhrd/files/Learning\\_Enhancement\\_0.pdf](https://www.mhrd.gov.in/sites/upload_files/mhrd/files/Learning_Enhancement_0.pdf)

(d) A letter was issued from Ministry on 13th July 2020, which has guidelines on how to deal with children of migrant labour. In order to ensure that there is no loss of learning or academic year for all such children, steps have been advised to the States and UTs.

**Introduction of Artificial Intelligence in curriculum by CBSE**

532. SHRI RAJEEV SATAV: Will the Minister of EDUCATION be pleased to state:

(a) whether Central Board of Secondary Education has proposed to introduce Artificial Intelligence (AI) curriculum for Class X and XII from the coming academic year;

(b) if so, the details thereof and the objective behind the move;

(c) whether with the advancement of Artificial Intelligence in the world, Government has failed to introduce specialization courses in Artificial Intelligence in National Universities;

(d) if so, the details thereof and the reasons therefor and the corrective steps taken by Government in this regard; and

(e) the other steps taken by Government to support higher education institutions to facilitate innovation?

THE MINISTER OF EDUCATION (SHRI RAMESH POKHRIYAL 'NISHANK'):  
(a) and (b) The Central Board of Secondary Education (CBSE) has informed that in order to enhance multidisciplinary approach in teaching, learning and to sensitize the new generation, Artificial Intelligence (AI) has been introduced as a subject, in class IX from the session 2019-20 in its affiliated Schools.

CBSE has collaborated with several organizations such as Intel, IBM, Microsoft, Private Schools, etc. for designing the curriculum and textbook material of the Subject. Also 41 training programmes on Artificial Intelligence have been conducted in schools affiliated with CBSE at various parts of the country in which 1690 participants (principals and teachers) have been trained. Artificial Intelligence has been introduced in classes VIII, IX, X & XI in schools affiliated with CBSE.

(c) and (d) All India Council for Technical Education (AICTE) which is a regulatory body for technical education under Ministry of Education, under its scheme, National Educational Alliance for Technology (NEAT) selected Ed-Tech companies who are providing AI based personalized adaptive learning solutions in various disciplines. AICTE has introduced AI and Data Science as a discipline in Engineering programs in many Institutes. Various IITs and IITs are running courses on AI.

(e) AICTE started conducting Faculty Development Programs (FDPs) with the help of Industry and Institute of National repute. So far 250 FDPs have been conducted in thrust areas including AI. Also, with the coordination of CBSE, school teachers were also allowed in some of the FDPs conducted in AI. Ministry of Education - AICTE established an innovation Cell at AICTE. The cell has constituted 1600 innovation councils in Higher Education Institutions. Regular innovation activities are being conducted in these Innovation Councils at Institutes in coordination with Ministry of Education - AICTE Innovation cell. All the IITs have established incubation centres to promote innovation among its students.

The Government has been emphasizing the need for promoting research that is socially relevant and is of use to the end users. For this purpose, two schemes, namely Impacting Research Innovation and Technology (IMPRINT) and Uchhatar Aviskar Yojana (UAY) have been launched. IMPRINT focuses on research in higher educational

institutions wherein the cost of the project is met to the extent of 50% by the Ministry of Education and the remaining 50% by the Participating Ministry/ Department. UAY promotes industry sponsored, outcome-oriented research projects. The projects cost under UAY is met to the extent of 50% by the Ministry of Education and 25% each by the industry and the participating Ministry/ Department.

#### **Issues relating to coaching institutes for vocational courses**

†533. SHRI NEERAJ DANGI: Will the Minister of EDUCATION be pleased to state:

- (a) the steps being taken by Government to give relief to general public from reckless loot by coaching centres for entrance in vocational education courses;
- (b) the steps taken by Government for making this sector more transparent, accountable and student friendly to stop exploitation of students and guardians;
- (c) whether Government is taking any steps to prescribe fees for such institutions;
- (d) whether any mechanism is being developed to tackle such irregularities and to immediately redress such complaints;
- (e) if so, the details thereof; and
- (f) if not, the reasons therefor?

THE MINISTER OF EDUCATION (SHRI RAMESH POKHRIYAL 'NISHANK'):

(a) There are ample provisions under the Consumer Protection Act for the students to seek redressal in case of grievance from any private coaching center.

(b) to (f) This Ministry has issued directions to all State Governments to take steps for effective regulation of such centres. Besides this, in the interest of students, Government has launched Study Webs of Active Learning for Young Aspiring Minds (SWAYAM), through which the teachers of reputed colleges of India offers free online courses. The study material and online discussion with teachers for clearing doubts for students is also available under Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM), Similarly, another initiative namely IIT-Professor Assisted Learning

†Original notice of the question was received in Hindi.