

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

LOK SABHA
UNSTARRED QUESTION NO. 3210
TO BE ANSWERED ON 15.03.2021

USE OF ARTIFICIAL INTELLIGENCE FOR EDUCATION TRANSFORMATION

3210. SHRI FEROZE VARUN GANDHI:

Will the Minister of EDUCATION be pleased to state:

- (a) whether the Government proposes to inculcate Artificial Intelligence (AI) for better educational transformation at secondary and higher secondary level;
- (b) if so, the details thereof;
- (c) the manner in which AI is likely to affect the overall capabilities of the education sector;
and
- (d) the steps taken by the Government to impart awareness of Artificial Intelligence and its application in higher educational institutions like IITs in the country?

ANSWER
MINISTER OF EDUCATION
(SHRI RAMESH POKHRIYAL 'NISHANK')

(a) & (b) The National Education Policy (NEP) 2020 has recommended introducing contemporary subjects like Artificial Intelligence in curriculum, at relevant stages. The National Council of Educational Research & Training (NCERT) has initiated the process for preparation of a new National Curriculum Framework for School Education in pursuance of the NEP, 2020 during which the possibility of introducing an introductory course on Artificial Intelligence (AI) at secondary level would also be explored. Meanwhile, the Central Board of Secondary Education (CBSE) has introduced Artificial Intelligence as a subject in class IX from session 2019-2020 and in Class-XI from session 2020-2021 in their affiliated schools.

(c) Artificial Intelligence has already been applied to education primarily in some tools that help develop skills and testing systems. Artificial Intelligence can drive efficiency, personalization and streamline administrative tasks to allow teachers the time and freedom to provide understanding and adaptability. By leveraging the best attributes of machines and teachers, the vision for Artificial Intelligence is one where they work together for the best outcome for students.

(d) The All India Council for Technical Education (AICTE) has informed that they have suggested all AICTE approved institutions to offer Artificial Intelligence as an elective in B.Tech. courses and also start B.Tech course in Artificial Intelligence and Data Science to augment the human resource in Artificial Intelligence and Data Analytics. So far as the Indian Institutes of Technology (IITs) are concerned, their Acts and Statutes allow them to have their own curriculum, academic & research collaboration with Institutions and Universities across the world. Most of the IITs offer various Artificial Intelligence related courses such as Deep Learning Foundations & Applications, Foundation of Artificial Intelligence and Machine Learning, Reinforcement Learning, Probabilistic Reasoning in Artificial Intelligence, Predictive & Prescriptive Data Analytics, Deep Learning, System Identification, Cyber Physical Security, Digital Image Processing, etc. Besides, IITs also organize short term programmes, *inter-alia*, on Artificial Intelligence for the working professional and interested students.
