

GOVERNMENT OF INDIA
MINISTRY OF EDUCATION
DEPARTMENT OF HIGHER EDUCATION

RAJYA SABHA
UNSTARRED QUESTION NO. 2601
ANSWERED ON 18.12.2024

Quality Technical Education

2601 SHRI GOLLA BABURAO:

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

- (a) whether the Ministry has evolved a comprehensive framework for ensuring quality and upto date education in Private Technological Institutions;
- (b) if so, the details thereof;
- (c) whether the Ministry plans to undertake comprehensive revision of the model syllabi for technological education courses (B.Tech, B.E. etc.) to accommodate new developments in Artificial Intelligence and Machine Learning;
- (d) if so, the details thereof; and
- (e) whether the Ministry plans to introduce an exit exam post the completion of aforesaid degrees for ensuring a standard level of knowledge and skills across educational institutions?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF EDUCATION
(DR. SUKANTA MAJUMDAR)

(a) to (e): The National Education Policy (NEP) 2020 aims to transform and improve the quality of education in the country and to provide a standard of education that is inclusive, equitable, and of high quality, empowering learners for the future and contributing to national development. NEP 2020 also promotes research and innovations by Higher Educations Institutes (HEIs) by setting up start-up incubation centres; technology development centres; centres in frontier areas of research; greater industry-academic linkages; and interdisciplinary research including humanities and social sciences research.

All India Council for Technical Education (AICTE), a statutory body under the Ministry of Education, grants approval for conducting courses in Technical Education at diploma, undergraduate and post graduate levels to Technical Institutions, Institutions deemed to be Universities and standalone institutions. These also include courses in new emerging technologies like Data Science, Artificial Intelligence, VLSI, Logistics and Advanced Communication Technology etc.

To achieve the objectives of NEP 2020, AICTE has taken a several steps including:

- Model Curriculum has been developed in areas such as Artificial Intelligence, Data Science, Space Technology, Electronic Engineering (VLSI Design and Technology), Robotics and Artificial Intelligence etc. Due representation of Industry stakeholders is ensured in the curriculum revision committees.
- Memoranda of Understanding (MoU) with leading industries and organisations have been signed to facilitate internship, skilling and upskilling of students and faculty members.
- Issued model internship guidelines for technical courses. Internship is mandatory component of Model Curriculum issued by AICTE for different courses. These guidelines provide internship in full-time or part-time.
- Industry Academia Mobility framework launched by AICTE to facilitate connect between theoretical knowledge and practical application, facilitating collaboration between academia and industry. Additionally, it provides for frameworks for industry-academia partnership, encouraging mutually beneficial engagements that enrich both parties.

The Ministry of Education in collaboration with IIT Madras and eminent Industry Partners have launched SWAYAM Plus platform on 27th February 2024, expanding its offerings to identify and include courses aligned with industry needs and to enhance learners' employability. The platform provides high-quality learning and certification programs from the leading industry and academia to the students/ learners which can help them in reskilling and upskilling and making them employment ready. Ministry of Education and IIT Madras has signed more than 55 MoUs with the leading industries partners. As on 22nd November, 2024, more than 320 Courses are available on the platform and more than 1.27 lakhs learners have enrolled on this platform for their Skill enhancement.
