GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO. 215
ANSWERED ON 01.12.2025

SKILLING IN EMERGING TECHNOLOGY

215. SMT. SAJDA AHMED:

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

(a) whether the Government has a policy roadmap for introducing skilling in Artificial Intelligence (AI), robotics and climate-friendly technologies;

(b) if so, the details of the institutions and criteria identified for rollout of these courses;

(c) whether industry or international bodies are involved in curriculum, training or certification, if so, the details thereof; and

(d) the details of the monitoring mechanism to assess the impact on employability and industrial growth?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI JAYANT CHAUDHARY)

(a) & (b): Under the Government of India's Skill India Mission (SIM), the Ministry of Skill Development and Entrepreneurship (MSDE) delivers skill, re-skill and up-skill training through an extensive network of skill development centres under various schemes, viz. Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Jan Shikshan Sansthan (JSS) scheme, National Apprenticeship Promotion Scheme (NAPS) and Craftsman Training Scheme (CTS) through Industrial Training Institutes (ITIs), to all the sections of the society across the country. The SIM aims at enabling youth of India to get future ready, equipped with industry relevant skills.

Further, National Council for Vocational Education & Training (NCVET) has developed the National Programme on Artificial Intelligence (NPAI) Skilling Framework, which outlines the national roadmap, structure and guidelines for skilling in AI, data science and emerging technologies serves as the foundational document for developing standardised, industry-aligned courses and curricula.

The initiatives such as PMKVY 3.0 and 4.0 have introduced specialised short-term and advanced modules focused on AI, Robotics and new age technologies. With the aim to meet industry demand, drive digital transformation, and build workforce readiness for Industry 4.0 and the green transition.
Under CTS, training in 31 new age courses, including Artificial Intelligence, Industrial Robotics and climate-friendly technology for skilling and upskilling of youth of the

country is provided through a network of Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs).

Also, Ministry of Electronics and IT (MeitY), along with Nasscom, has launched the FutureSkills Prime (FSP) platform for equipping learners with knowledge of 11 emerging technologies by offering courses and other offerings on Artificial Intelligence (AI), Robotics Process Automation (RPA) cyber security, and other digital skills.

(c) MSDE launched a national-level initiative, SOAR (Skilling for AI Readiness) aimed at embedding AI awareness and foundational skills 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.

DGT has collaborated with entities including IBM India, Microsoft, Cisco, Abode India, Amazon Web Services (AWS), Future Right Skills Network (FRSN), Edunet Foundation, Auto Desk etc, for skilling initiatives under Corporate Social Responsibility (CSR). These partnerships facilitate the provision of technical and professional skill training in modern technologies. A module on 'Introduction to Artificial Intelligence (AI) Duration: 7.5 Hours' has been introduced in the subject of Employability Skills under the trades of CTS.

The courses offered through the FutureSkills Prime platform are industry-aligned and offered by global OEM partners, content partners, and Nasscom. Further, IT-ITeS SSC Nasscom develops Qualifications that are created jointly with the industry, including their validation.

Sector Skill Councils (SSCs), constituted with active industry and global domain participation, co-develop curriculum and conduct Training of Trainers. Leading industry partners offer curriculum support and provide apprenticeship/internship support in AI, robotics and climate tech.

Many industry partners also submit their own AI and technology courses for NCVET's approval, enabling adoption of the latest industry-designed curriculum. These partnerships collectively ensure that AI-related skilling programmes remain relevant, high-quality and strongly focused on employability.

(d) A robust, multi-layered monitoring and impact assessment framework is followed under PMKVY. All candidates, training providers, and employment outcomes are tracked on a digital platform (SIDH). Periodic third-party assessments, and employer feedback shape ongoing improvement. Continuous data analytics and reporting facilitate adaptive decision-making and evidence-driven scaling of emerging technology skilling initiatives.

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