

**GOVERNMENT OF INDIA
MINISTRY OF EDUCATION
DEPARTMENT OF HIGHER EDUCATION**

**LOK SABHA
UNSTARRED QUESTION NO. 1935
TO BE ANSWERED ON 13.03.2023**

Chip Design and Manufacturing

1935. SHRI K. NAVASKANI:

Will the Minister of EDUCATION be pleased to state:

- (a) whether the Government is cognizant that the future of chip design and manufacturing lies in the quality of engineering education and skill development;
- (b) if so, the details thereof; and
- (c) the steps taken or proposed to be taken by the Government keeping in mind that a continuous industry interface during the course of engineering curriculum also needs to be factored as part of policy to cater for future chip design and manufacturing in the country?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF EDUCATION

(DR. SUBHAS SARKAR)

(a) to (c): The Government is actively implementing measures to cater to the demand of skilled workforce for the continuously growing Semiconductor industry. To this effect, the Government has launched India Semiconductor Mission to become Atmanirbhar in Semiconductor Design and Manufacturing. Recently, initiatives are being taken to foster skilled manpower in the semiconductor manufacturing sector as well. Premier technical institutes have started many courses in this domain, for example Indian Institute of Technology Hyderabad has launched an exclusive undergraduate program specifically designed for industry ready manpower generation in Chip Design and Manufacturing field in the academic year 2022-23.

Further, the All India Council for Technical Education (AICTE) has prepared and launched model course curriculum for an undergraduate level program in Electronics Engineering with a specialization in Large Scale Integration (VLSI) Design & Technology and a Diploma in Integrated Circuit Manufacturing for Polytechnics in collaboration with industry. Postgraduate level courses are already being offered in this vital area in various Technical Institutions. Multiple Faculty Development Programmes through AICTE Training and Learning (ATAL) Academy have been launched to train faculty members in semiconductor domain.
