GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 1282
TO BE ANSWERED ON: 25.07.2018

JOBLESS IT GRADUATES

1282   SHRI KALYAN BANERJEE:

Will the Minister of Electronics and Information Technology be pleased to state:
(a)   whether it is a fact that B.Tech graduates are not fit for hiring by the IT firms due to skill shortages;
(b)   if so, whether the Government has received any report regarding the issue;
(c)   whether the Government has received any complaint regarding learnability and the skill development deficiency therein; and
(d)   if so, the steps Government proposes to take to tackle the problems of unemployment of the engineers in the country?

ANSWER
MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI S.S. AHLUWALIA)

(a), (b) and (c): The National Association of Software and Services Companies (NASSCOM) has indicated that shortage of skilled talent in Science, Technology, Engineering and Mathematics (STEM) sector persists in India.

The Indian IT Industry is increasingly looking at new skill-sets and subject matter experts to continue on the evolution growth path. New job roles in areas such as Internet of Things, Artificial Intelligence, Cyber Security, Data Science, Mobile App development, etc are evolving, which is giving rise to a new breed of domain experts. New job roles requiring different skill-sets are appearing and earlier jobs based on older skill-sets are losing their relevance.

(d):   Government has taken several measures to bridge the skill gaps required by IT sector which includes the following:-
* MeitY has signed a Memorandum of Understanding (MoU) with NASSCOM, to collaborate and strengthen their cooperation in the field of skill development particularly with respect to the re-skilling and up-skilling imperative in areas of new and emerging technologies, with Government acting as an enabler/facilitator. The content of collaboration includes enabling a Skill Development and Continuous Learning Framework whereby, NASSCOM shall endeavour to support MeitY by making available its skill development initiatives that focus on content, evangelism and industry connects, to enable the re-skilling and up-skilling imperative for the Information Technology - Business Process Management (IT-BPM) Industry and related stakeholders in India.
* NASSCOM has launched a future skills platform for Business to Business (B2B) skilling of company sponsored IT professionals (http://futureskills.nasscom.in/).

- AICTE's SWAYAM and MHRD's NPTEL are made available to educate individuals across legacy and new-age technologies such as Cloud computing, Data Science/ Big Data and Analytics etc.
- In addition, various measures have been taken by the National Institute of Electronics and Information Technology (NIELIT) and Centre for Development of Advanced Computing (CDAC), autonomous Scientific Societies of MeitY for enhancing the employability of engineering graduates which are given at **Annexure**.

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Annexure

1. **National Institute of Electronics and Information Technology (NIELIT)**

- NIELIT has signed an MoU with AICTE under their Employability Enhancement Training Programme (EETP), which aims to help produce engineering graduates adequately equipped with required skills to achieve the highest personal and professional standards by means of intensive hands-on training to enable the Indian technical expertise globally acceptable.
- NIELIT caters to provide the formal and non-formal education for the youths of the country through array of skill development programmes upto NSQF level 8 in IT-ITeS & Electronic Sector. To provide additional skills to the engineering graduates, NIELIT offers following specialised/skill development programmes in the field of IT & Electronics having eligibility criteria as B.Tech/ pursuing B.Tech.:

  - Certificate course in EMI and EMC for Electronic Product Design
  - PG Diploma in IOT
  - PG Diploma in VLSI & Embedded Hardware Design
  - PG Diploma in Industrial Automation System Design
  - Certificate programme on system Verilog and UVM
  - PG Diploma in Embedded Real Time Systems
  - PG Diploma in Electronics System Design and Manufacturing
  - Advanced Diploma in VLSI Physical Design Engineer
  - PG Diploma in Embedded System Design
  - Certificate Course in Cyber Forensic
  - PG Diploma in Cloud Computing
  - PG Diploma in IoT and AI for Industry 4.0
  - Advanced Diploma in Big Data Analytics
  - Advanced Diploma in Artificial Intelligence (AI)

2. **Centre for Development of Advanced Computing (CDAC)**

- CDAC offers IT skills enhancement courses curriculum programmes which are available to the B.Tech students to make them Industry ready. Every year over 10,000 students apply for the C-DAC PG Diploma courses oriented towards IT Industry requirements to enhance the programming and advanced technical skills.
- In the last four years CDAC provided training to over 21,423 students in eleven Post Graduate Diploma Courses (NSQF level 8) through a network of over 30 training centres located in pan India.

- C-DAC has taken the initiative to provide the finishing training to unemployed engineers to provide the advance technical training thorough its Post Graduate Diploma in Advanced ICTE areas such as:

    - PG Diploma in Advanced Computing (PG-DAC)
    - PG Diploma in Mobile Computing (PG-DMC)
    - PG Diploma in Embedded Systems Design (PG-DESD)
    - PG Diploma in IT Infrastructure, Systems & Security (PG-DITISS)
    - PG Diploma in System Software Development (PG-DSSD)
    - PG Diploma in Big Data Analytics (PG-DBDA)
    - PG Diploma in Internet of Things (PG-DIoT)
    - PG Diploma in VLSI Design (PG-DVLSI)
    - PG Diploma in HPC System Administration (PG-DHPCSA)
    - PG Diploma in Biomedical Instrumentation & Health Informatics (PG-DBIHI)
    - PG Diploma in Geoinformatics (PG-DGi)

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