

GOVERNMENT OF INDIA
MINISTRY OF EDUCATION
DEPARTMENT OF HIGHER EDUCATION

LOK SABHA
UNSTARRED QUESTION NO. 2363
TO BE ANSWERED ON 13.12.2021

New Emerging Fields of Science

2363. SHRI VISHNU DATT SHARMA:

Will the Minister of EDUCATION be pleased to state:

- (a) whether the Government has adopted new emerging fields of Science like Quantum Key Distribution, Blockchain, Machine Learning, Artificial Intelligence, IO, 5G Network, advanced Energy Materials by Indian Universities in their teaching and research curriculum;
- (b) if so, the details thereof; and
- (c) if not, the reasons therefor?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF EDUCATION

(DR. SUBHAS SARKAR)

(a) & (b) As per the Institutes of Technology Act, 1961 the Board of Governors of IITs are empowered to institute courses of study at the institutes in consultation with their Senate. The courses and curriculum are regularly updated by IITs keeping in view the new and emerging fields/technologies.

AICTE has uploaded the curriculum of nine (09) emerging technologies on AICTE web portal (link- https://www.aicte-india.org/sites/default/files/UG_Emerging.pdf) in the following fields:

- i) Artificial Intelligence (AI),
- ii) Information of Technology (IoT),
- iii) Block Chain,
- iv) Robotics,
- v) Quantum Computing,

- vi) Data Sciences,
- vii) Cyber Security,
- viii) 3D Printing & Design
- ix) Augmented Reality (AR)/Virtual Reality (VR)

Also, AICTE has implemented Research Promotion Scheme (RPS) which aims to create research ambience by promoting research in technical disciplines and innovations in established and emerging technologies.

(c) Not Applicable.
