



**MANIT**  
BHOPAL

Registrar MANIT <registrar@manit.ac.in>

**Fwd: Lok Sabha Provisionally Admitted Starred Question Dy. No. 9320 for answer on 06.08.2025 on Challenges related to Cybersecurity.**

5 messages

NITs Division, MoE Government of India <nit.edu@nic.in>

Wed, Jul 30, 2025 at 3:25 PM

To: director <director@nita.ac.in>, director <director@mnnit.ac.in>, director <director@manit.ac.in>, director <director@nitc.ac.in>, director <director@nitdgp.ac.in>, director <director@nith.ac.in>, director <director@mnnit.ac.in>, director <director@nitj.ac.in>, director <director@nitjsr.ac.in>, director <director@nitkkr.ac.in>, director <director@vnit.ac.in>, director <director@nitp.ac.in>, director <director@nitrr.ac.in>, director <director@nitrtl.ac.in>, director <director@nits.ac.in>, director <director@nitsri.net>, director <director@svnit.ac.in>, director <director@nitk.edu.in>, director <director@nitt.edu>, director <director@nitw.ac.in>, director <director@nitap.ac.in>, director <director@nitdelhi.ac.in>, director <director@nitgoa.ac.in>, director <director@nitmanipur.ac.in>, director <director@nitm.ac.in>, director <director@nitmz.ac.in>, director <director@nitnagaland.ac.in>, director <director@nitpy.ac.in>, director <director@nitsikkim.ac.in>, directoroffice <directoroffice@nitsikkim.ac.in>, director <director@nituk.ac.in>, director <director@nitandhra.ac.in>, director <director@iiests.ac.in>, registrar nita <registrar nita@rediffmail.com>, establishment <establishment@nita.ac.in>, registrar <registrar@mnnit.ac.in>, registrar <registrar@manit.ac.in>, registrar <registrar@nitc.ac.in>, registrar <registrar@nitdgp.ac.in>, registrar <registrar@nith.ac.in>, registrar <registrar@mnnit.ac.in>, registrar <registrar@nitj.ac.in>, registrar <registrar@nitjsr.ac.in>, registrar <registrar@nitkkr.ac.in>, registrar <registrar@vnit.ac.in>, registrar <registrar@nitp.ac.in>, registrar <registrar@nitrr.ac.in>, registrar <registrar@nitrtl.ac.in>, registrar <registrar@nits.ac.in>, registrar <registrar@nitsri.net>, registrar <registrar@svnit.ac.in>, registrar <registrar@nitk.edu.in>, registrar <registrar@nitt.edu>, registrar <registrar@nitw.ac.in>, registrar <registrar@nitap.ac.in>, registrar <registrar@nitdelhi.ac.in>, registrar <registrar@nitgoa.ac.in>, registrar <registrar@nitmanipur.ac.in>, registrar <registrar@nitmz.ac.in>, registraroffice <registraroffice@nitmz.ac.in>, registrar <registrar@nitnagaland.ac.in>, registrar <registrar@nitpy.ac.in>, registrar <registrar@nitsikkim.ac.in>, registrar <registrar@nituk.ac.in>, registrar <registrar@nitandhra.ac.in>, regis <regis@iiests.ac.in>, registrar <registrar@nitm.ac.in>

Cc: Veena Dunga <veena.dunga@nic.in>, dsmoenit2 <dsmoenit2@gmail.com>, "Shri Pawan Kumar, Under Secretary (NITs-III), MoE" <pawan.kumar2017@gov.in>, Vikas Tripathi <vikastripathi.edu@nic.in>

Respected Sir \ Madam,

Please refer to the trailing mail in connection with above mentioned subject. All the NITs/IIEST Shibpur are requested to provide point-wise information of the parliament question in WORD FILE to this Division by tommorrow at 05:00 pm positively, so that to enable us to furnish the information to the concerned Division.

**"Please acknowledge receipt and reply in-line"**

Thanks & Regards,

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**Technical Section - III (NITs Desk),  
 Department of Higher Education,  
 Ministry of Education (Shiksha Mantralaya),  
 Government of India,  
 Room No.435, C - Wing,  
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**Disclaimer:**

This e-mail and its attachments may contain official Indian Government information. If you are not the intended recipient,

Please find the Lok Sabha Provisionally Admitted Starred Question Dy. No. 9320 for answer on 06.08.2025 on Challenges related to Cybersecurity, received from Ministry of Electronics and Information Technology for inputs.

The Text of the Question is as below : -

- a. the initiatives taken by the Government to promote emerging technologies such as AI, cybersecurity, cloud computing and data science in India from 2021-2025;
- b. the number of Government projects or programs incorporating these technologies along with the sectors they are imparting;
- c. the funds allocated for the development and implementation of these technologies from 2021-2025, and the role of public-private partnerships in this process;
- d. the steps being taken to address challenges related to cybersecurity in the adoption of emerging technologies; and
- e. the plans for expanding the use of cloud computing and data science in public administration and governance in next four years?

2. The concerned Bureaus are requested to provide the inputs **directly to the concerned Ministry at NATLA REDDY <[sudheer.reddy@meity.gov.in](mailto:sudheer.reddy@meity.gov.in)>**

Regards,

**CDN Section  
D/o Higher Education  
Ministry of Education**

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===== Forwarded message =====

From: Rina Sonowal <[rinasonowal.edu@nic.in](mailto:rinasonowal.edu@nic.in)>

To: "Amandeep Singh" <[cdn.edu@nic.in](mailto:cdn.edu@nic.in)>

Date: Tue, 29 Jul 2025 17:05:41 +0530

Subject: Fwd: Lok Sabha Provisionally Admitted Starred Question Dy. No. 9320 for answer on 06.08.2025 on Challenges related to Cybersecurity.

===== Forwarded message =====

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===== Forwarded message =====

From: Vineet Joshi <[secy.dhe@nic.in](mailto:secy.dhe@nic.in)>

To: "Rina Sonowal" <[rinasonowal.edu@nic.in](mailto:rinasonowal.edu@nic.in)>

Date: Tue, 29 Jul 2025 16:51:49 +0530

Subject: Fwd: Lok Sabha Provisionally Admitted Starred Question Dy. No. 9320 for answer on 06.08.2025 on Challenges related to Cybersecurity.

===== Forwarded message =====

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## MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL

**Subject:** Inputs from MANIT Bhopal for Lok Sabha Dy. No. 9320 (Cybersecurity & Emerging Technologies)

In response to your request, please find below the institute's inputs for Lok Sabha Starred Question Dy. No. 9320 (scheduled for reply on **06 August 2025**) on the subject of challenges and initiatives related to emerging technologies in India.

### a) Initiatives (2021–2025) to Promote Emerging Technologies

MANIT Bhopal has undertaken several strategic and academic initiatives aligned with the Government of India's push for AI, Cybersecurity, Data Science, and Cloud Computing:

- Active research areas include **Artificial Intelligence, Cybersecurity & Forensics, IoT, Cloud Systems, and Data Analytics.**
- MANIT is an active partner institution under MeitY's **Information Security Education and Awareness (ISEA)** program.
- A vibrant **OWASP Student Chapter** promotes secure software development, ethical hacking, and real-world application security practices through events like **CyberQuest, CyberHunter, and CyberBasics.**
- The institute regularly organizes **Short-Term Training Programs (STTPs)** and Faculty Development Programs in AI, Cybersecurity, and Cloud Computing.
- To build skilled professionals in emerging domains, MANIT offers the following **academic programs:**
  - **M.Tech in Artificial Intelligence**
  - **M.Tech in Advanced Computing**
  - **M.Tech in Information Security**
  - **Dual-Degree B.Tech + M.Tech in Mathematics and Data Science**

These programs equip students with practical and research-based skills to contribute to data-driven governance, secure computing, and AI-based public applications.

### b) Projects/Programs Incorporating These Technologies

- MANIT hosted the **Cyber Security Hackathon 2025**, focusing on real-world cyber defense and AI-based problem-solving.
- Through OWASP-led competitions and ISEA-linked outreach, students engage in hands-on challenges tied to sectors like **public administration, education, and digital infrastructure.**
- **Final-year B.Tech and M.Tech students** regularly undertake **capstone projects** in AI, cybersecurity, IoT, and data analytics with applications in smart cities, healthcare, and digital services.
- **Ph.D. scholars** are also actively involved in research contributing to:
  - **AI for prediction in the health care domain**
  - **Network intrusion detection systems**

## MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL

- **AI for prediction in the agriculture domain**
- **Federated Learning for privacy preservation**
- Several of these projects are interdisciplinary and problem-driven, with potential for pilot testing in collaboration with government and public sector organizations.

### c) Funds Allocation and Public-Private Partnerships (PPPs)

- MANIT has committed an investment of **₹2.5 Crores** for developing infrastructure and labs in the areas of **Artificial Intelligence, Cybersecurity, and IoT**.
- Recently developed laboratories:
  - **Cybersecurity Lab**
  - **Brain-Computer Interface Lab**
  - **IoT Lab**
- Upcoming labs in **Cloud Systems, Big Data Analytics, and Robotics** are also planned.
- The institute collaborates with public and private stakeholders including:
  - **OWASP** (events, mentorship, CTFs)
  - **ISEA/MeitY** (cyber awareness and training)

### d) Steps to Address Cybersecurity Challenges

- Integration of cybersecurity best practices into the curriculum, including labs, simulations, and attack-defense models.
- Hosting **certification workshops, Capture-the-Flag events, and cyber awareness campaigns**.
- Development of secure application design capabilities through open-source toolkits, faculty mentoring, and industry interactions.
- Research efforts by students and Ph.D. scholars on real-time threat detection, privacy preservation, and secure authentication methods.

### e) Plans for Expanding Cloud Computing & Data Science in Governance

- Future plans include:
  - Piloting **cloud-hosted public analytics tools**.
  - Offering **training programs for faculty members and students of other institutes**
  - Partnering with other institutions like AIIMs, ISRO, DST for the development of **data-driven decision-making models**.