



5G Hackathon

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Why in News

The **Department of Telecommunications (DoT)** has launched **5G Hackathon** in association with various academic and industrial stakeholders. It will be spread across three phases beginning from February 2020 and culminating October 2020.

- It **aims at shortlisting India's cutting edge ideas** that can be converted into workable **5G** products and solutions.
- It is open to developers, students, start-ups, Small and Medium Enterprises (SMEs), academic institutions & registered companies in India and NRIs.
- Participants can develop 5G solutions from various categories including **Healthcare, Education and Governance, AgriTech and Livestock, Environment, Public Safety and Disaster Management Enterprise, Smart Cities and Infrastructure, Cyber Security, Banking, Finance and Insurance, Logistics and Transportation, Multimedia and Broadcast**, among others.

5G Technology

- 5G is the **fifth generation cellular technology** that apart from increasing the downloading and uploading speeds over the mobile network, also reduces the **latency** i.e. the **time taken by a network to respond**.
- 5G will provide a download speed of 1 Gbps, which is at least 100 times the existing data speeds.
- It also **increases energy efficiency** and **offers more stable network** connections.
- 5G will have a **wider area in the frequency spectrum** (range of frequencies) that will ensure no network congestion.
- In addition, it will also **ensure connectivity** to a full circle i.e. everything is connected to every other thing. Its **application in different economic verticals** is one of the most distinctive features of 5G technology.

Source: PIB