



INC '24



# RULE-BOOK

## *IMPETUS*

Website: [www.pictinc.org](http://www.pictinc.org)





# **STRUCTURE OF TEAM:**

- A team should consist of a maximum of 5 students.
- The registration fee for a team is Rs. 100/-.
- Date: 5th April, 2024 to 7th April, 2024

# **ELIGIBILITY:**

- This competition is exclusively for First, Second, and Third-Year Engineering students.
- Students from all engineering branches are eligible to participate, with projects confined to specific domains as mentioned below.

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# DOMAINS:

- **Application Development:**
  - Mobile Applications (Android): Development of mobile applications for the Android platform.
  - Web Applications: Creation of web-based applications accessible via internet browsers.
  - Database Applications: Design and development of applications interacting with databases.
  - Others: Exploration of advanced concepts such as Big Earth Data Analytics, Geo Informatics, etc.
- **Communication Networks & Security Systems:**
  - Computer Networks: Study and implementation of network protocols, architectures, and technologies.
  - Internet of Things (IoT): Development of interconnected systems of devices.
  - Information and Network Security: Focus on safeguarding data and network infrastructure.
  - Others: Exploration of emerging technologies like Blockchain applications, Virtualization, etc.

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# DOMAINS:

- **Digital/Image/Speech/Video Processing:**
  - Digital Signal Processing: Analysis and manipulation of digital signals.
  - Image Processing: Techniques for altering or enhancing digital images.
  - Speech Recognition: Development of systems capable of recognizing human speech.
  - Others: Exploration of various digital processing techniques for speech, video, and image data.
- **Embedded/VLSI Systems:**
  - Embedded Vision: Integration of computer vision capabilities into embedded systems.
  - Internet of Things (IoT): Development of embedded systems for IoT applications.
  - Analog & Mixed Signal VLSI Design: Design and fabrication of integrated circuits.
  - Others: Topics like testing and verification of VLSI designs, machine learning for embedded systems.



# DOMAINS:

- **Machine Learning and Pattern Recognition:**
  - Knowledge Representation: Methods for representing and reasoning about knowledge.
  - Machine Learning: Study and application of algorithms for learning from data.
  - Deep Learning: Subset of machine learning techniques inspired by the structure and function of the human brain.
  - Others: Research in areas like human-computer interaction, web data mining, etc.
- **Others:**
  - Bio-Signal Processing: Analysis and interpretation of biological signals.
  - Biomedical: Development of technologies and systems for medical applications.
  - Bioinformatics: Application of computational techniques to analyse biological data.
  - Others: Diverse topics related to engineering applications in biology and medicine.



# **RULES:**

- This competition is for First, Second and Third-year Engineering students (All Engineering Branches confined to Specific domains as mentioned above are eligible).
- FE/SE Impetus Event Projects can be at a primary level, i.e., the projects can be prototypes or not necessarily complete. (It is expected that the project is 70-80% complete).
- TE Impetus Event Projects need to be completely implemented to be eligible. Only idea presentation for TE Projects is not sufficient.
- All team members must be present for the presentation in either online/offline mode, as applicable.
- Projects will be evaluated by at least 2 industry judges in a single session or in two different sessions.
- All the teams are requested to be present online/offline mode, as applicable for the complete session as per given time slot on the given date and time.
- If both judges are present at the same time, then the team must attend one session otherwise the team has to attend two sessions.

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# **RULES:**

- Date and time of Online Session/Presentation will be informed to participating groups one day before the event via email and on the website.
- InC 2024 Impetus team will provide link to join the Session / Presentation along with date and time for the online participants.
- If participants fail to attend the Presentation/Session then that team will be immediately disqualified.
- If the number of projects in any domain is less than 07, then only E-Certificates will be given and no prize money will be awarded.
- Final decision on the evaluation will be of Judges and InC 2024 Impetus Team.
- E-Certificate will be given to all participants in the team.
- The online session/presentation will be held on Microsoft Teams Software/Google Meet, for the contestants outside Pune or the ones who cannot attend it in offline mode/physically. The participants from Pune should attend it in offline mode.



# **RULES:**

- The online session/presentation will be held on Microsoft Teams Software/Google Meet, so participants must have this software installed on their devices, be logged in, and be familiar with its proper usage.
- The InC 2024 team reserves all the rights for resolving any conflicts arising during the event.



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# **NOTE:**

In case of emergencies or issues, one group member should contact the faculty member in charge of the Impetus judging team. By participating in Impetus 2024, you agree to abide by these rules and regulations. We look forward to your innovative projects and wish you the Best of Luck!

# **CONTACT:**

***For more information or queries related to Impetus:***

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