

Navachar Hackathon

Aim:

Participants are required to come up with new innovative solutions that are directed towards solving the problem statements described through the following End Goals with the given Themes.

GOALS			
Energy Efficiency	Cost Optimisation	Environmental Impact	Asset Management

THEMES	
Power distribution	Avoid power theft, improve efficiency and improve power allocation using smarter systems
Industrial Safety	Optimal lighting, Integrated sensor based surveillance solution, Advance smoke alarms
Smart Indoor Lighting	Automating LED lighting usage based on dimming and various sensors such as Time, Daylight, Ambient Conditions, Astro, motions, energy theft etc
Human Centric Lighting	Embedding Artificial Intelligence and making Lighting understand and act based on patterns of movement, and human mood/behaviour

General Rules:

Working prototypes of these innovative solutions must be submitted once the Hackathon is completed, so that the process of evaluation can be completed by the respected judges for finalizing the winners.

Timeline:

Participants are expected to ideate and do background research on the above stated problems statements before the days of the Hackathon. After the Ideation phase, on the day of the Hackathon, you will be required to implement your ideas, make a prototype and submit it there and then.

Hardware Provided and Resources Allowed:

1. Basic electronics (will be provided by Techfest)
 - a. Breadboards, wires, switches, LEDs (will be provided by Techfest)
 - b. Microcontroller units – Arduino (will be provided by Techfest)
2. Interfacing unit - ESP8266 (IoT) (will be provided by Techfest)
3. All Open Source Code/Libraries, Google APIs etc. (with clear mention of source in documentation)
4. If any team feels the need to use any specific component apart from those mentioned here, please write a mail justifying your requirement at himanshu@techfest.org and we will look into it.

Team Specifications:

A team may consist of a maximum of 4 participants.

Students from different educational institutes can form a team.

Eligibility:

All students with a valid Student identity card(s) of their respective educational institutes are eligible to participate.

Certificate Policy:

The top three teams will be awarded with the Certificate of Excellence at Techfest, IIT Bombay. E-Certificates of participation will be awarded to all the participants after completion of Hackathon.

Prizes:

Top 5 teams will be given 10,000 INR Prize money each. Teams with positions 6th to 30th will get 2,000 INR each for their innovative ideas.

The Prize money will be awarded to winning teams via NEFT within 20 working days after the completion of Hackathon. The members of winning team have to mail the following information (immediately after announcement of results) to prithviraj@techfest.org.

Subject: Competition Name, Team ID - Your position (Example- Meshmerize, ME1003 - 3rd Position)

Body of mail:

- 1.Account Holder's Name
- 2.Account Number
- 3.Bank name and Branch name.
- 4.IFSC Code

Important Note:**Intellectual Property Rights-**

The IP rights in the content(s) of the submitted entries and related prototype shall be assigned to Bajaj Electricals Limited ("BEL") without any further consideration. BEL shall have the rights to implement and commercialize the innovative solution submitted in the entries and prototype on industrial and manufacturing level.