

VIRTUAL ROBOTICS

EVENT OVERVIEW:

Robotics is the branch of technology that deals with design, construction, operation, and application of robots, as well as computer systems for their control, sensor feedback, and information processing. Virtual Robotics aims at tapping the infinite potential of human mind to generate an idea, which when given a proper platform, can transform into a path breaking discovery. We invite you to bring forth such original ideas and present it in a genuine and comprehensive way. These ideas deal with automated machines that can take the place of humans in hazardous environments or manufacturing processes. As mechanical techniques develop through the Industrial age, more practical applications are being proposed. This event requires you to make use of soft skills to represent ideas of any task-specific robot or a technology of your choice and showcase your proficiency in the virtual world.

e.g.-Kinematic analysis of robotic arm, simulation/motion analysis of robotic gripper using Simulink or any design software capable of simulation.

All the work you have done as part of projects in courses, your summer research work, the B.Tech./ B.E.Projects /B.Sc. research program are welcome, subject to the condition that it has in some way contribution towards research in robotics and technology.

RULES:

1. There are no constraints on the choice of simulation software to represent the concept.
2. Working model of the concept is not required.
3. Any application reducing human efforts or enhancing human capabilities effectively will be considered for this event.
4. Participants are required to bring their own laptops compatible with **VGA projector pin**.
5. Participants are required to present their ideas in a convincing manner to the jury.
6. An abstract of about 400 words (max.) has to be submitted focusing on the problem statement, scope of work, the idea proposed, original work done and brief results & findings, latest by 20th September, 2016 by 5:00 pm on robotics@mind-spark.org.

7. Last minute entries may be allowed but not preferred.
8. Your idea will be peer reviewed and the shortlisted entries will qualify to the final round.
9. Entries will be evaluated solely on the basis of **originality, applicability and feasibility** of the idea.
10. Additional credits will be given for aesthetics, ergonomics, economics, etc.
- 11.

Shortlisted teams will have to present their full ideas during MS'16.

12. The decision of the judges would be final and binding to all.

13. Rules may be changed without prior intimation. Participants are requested to check the official MindSpark'16 website(www.mindspark.org) regularly for updates.

TEAM AND FEE STRUCTURE:

Team Size : Maximum 2 participants per team.
Registration fee : ₹50/- per team.

EVENT HEADS:

Akshay Kadam : +91 72763 36125
Neha Mota : +91 75884 40155
Email ID : robotics@mind-spark.org