

# ROBOTECH '21



29-30  
OCTOBER



INDERPRASTHA ENGINEERING  
COLLEGE



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# INDERPRASTHA ENGINEERING COLLEGE

Approved by AICTE, New Delhi ,Affiliated to Dr. A.P.J. Abdul Kalam Technical University Lucknow Accredited by NAAC , Program accredited by NBA(B.Tech - CSE, IT, ECE & CIVIL)

## DEPARTMENT OF INFORMATION TECHNOLOGY ABOUT ROBOTECH'21

### Goals of RoboTech'21

- Search talents to solve real world problems through the use of software as well as Hardware coding.
- A platform for students to showcase their competency in the domain of Robotics and Coding both.
- Build, code and Test Robots under Robotics events.
- Provide solutions by developing software projects under Coding events.

### Event :

29 OCTOBER

30 OCTOBER

- FASTEST LINE FOLLOWER (FLF)
- HACKATHON
- WATER ROCKET
- EXPOSITION TOURNAMENT



## ABOUT IPEC

IPEC is one of the most preferred engineering college in Ghaziabad Delhi NCR for aspiring engineers and technologists. It was established in the year 2000, by leading academicians and business leaders in North India, under the aegis of Shail Garg Shiksha Sansthan, a non-profit making society. IPEC is the best engineering college in Ghaziabad Delhi NCR with 20+ years of excellence, a rich alumni base of 15000+ students, and best placement with 200+ recruiters. IPEC has now become a pioneer in the field of technical education. Be it education, extracurricular activities, placement offers, campus or faculty IPEC is counted as top engineering college of AKTU in Ghaziabad, Delhi NCR.



## ABOUT DEPARTMENT

The significance of Information Technology on this world is expanding at an extremely quick speed. Today, there is not really any individual whose life isn't moved by Information Technology. In our daily lives, we have integrated the products and end means of information technology whether it's the operating systems on the computer networks that automate a company's tasks and processes, our mobile phones, or the vast amount of information sought and found on the internet. This translates ostensibly that careers in the information technology sector are expected to grow significantly in the upcoming years.

The Information Technology (IT) department is part of IPEC since 2000. The department offers B.Tech. program in Information Technology with a yearly admission of 180 students. The department is NBA accredited with 100% admission. The objective is to prepare students to seek leadership, technical and management positions in numerous of industries. We employ innovative teaching methodologies. The department is well established with 20 highly qualified and experienced faculties who are experts in their chosen fields. The faculty has undergone training and is certified through various Faculty Development Programs.

## FASTEST LINE FOLLOWER (FLF)

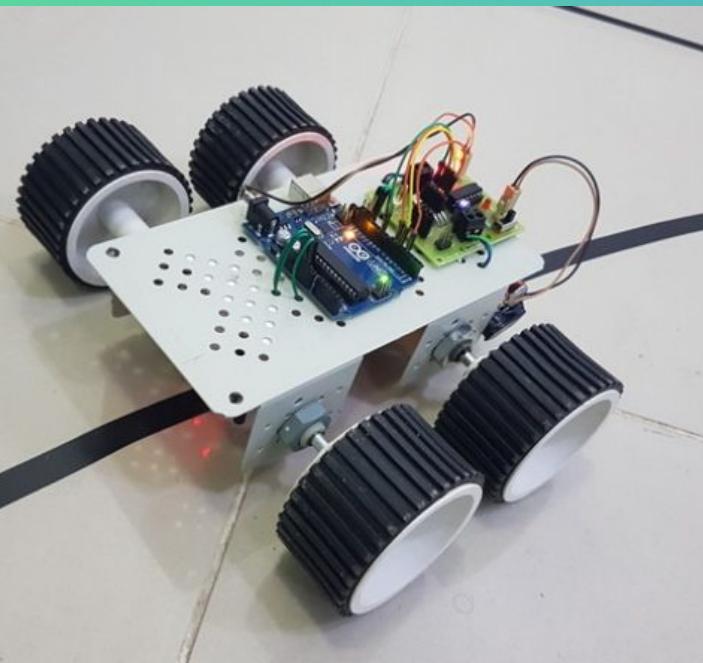
Build your own autonomous robot within the specified dimensions to achieve the maximum speed to beat other robots on the given track and reach the destination in minimum time. The robot must start behind the starting point and is considered to have crossed the finishing line if any part of the robot crosses it in a full lap of the course. The robot must follow the black line.

**Team Size: Minimum-2, Maximum-3**

**Prizes: 1st- 3000/-**

**2nd – 2000/-**

**3rd – 1000/-**



## HACKATHON

The goal of a Hackathon is to create functioning software or hardware by the end of the event. Hackathons tend to have a specific focus, which can include the programming language used, the operating system, an application, an API, or the subject and the demographic group of the programmers.

**Team Size: Maximum 4**

**Prizes: 1st- 3000/-**

**2nd – 2000/-**

**3rd – 1000/-**



## WATER ROCKET

Design and build a water rocket within the specified dimensions robust enough to withstand the pressure and when launched from the launch pad achieves the maximum altitude above ground level. Team with maximum air time will be nominated as the winner.

**Team Size: Minimum-2, Maximum-4**

**Prizes: 1st- 3000/-**

**2nd – 2000/-**

**3rd – 1000/-**



## EXPOSITION TOURNAMENT

An e-Sport Valorant Tournament, "EXPOSITION TOURNAMENT", in which Twelve teams will battle it out in single-elimination format matches.

**Team Size: 5 Members**

**Prizes: 1st- 3000/-**

**2nd – 2000/-**

**3rd – 1000/-**



# **ADVISORY COMMITTEE**

**Prof(Dr.) AJAY KUMAR**  
DIRECTOR, IPEC

**Dr. PREETI SHARMA**  
Convener : E-SPORTS

**Ms.AKANKSHA PRASAD**  
Convener : WATER ROCKET

**Ms. SHUBRA**  
Publicity Incharge

**Ms. MONIKA BANSAL**  
REGISTRAR, IPEC

**Ms. BINDU RANI**  
Convener : FASTEST LINE FOLLOWER

**Dr. ALOK KATIYAR**  
Co-Convener : HACKATHON

**Ms. SHIMPY GOYAL**  
Publicity Incharge

**Prof(Dr.) POOJA TRIPATHI**  
HOD IT

**Ms. NIDHI GUPTA**  
Convener : HACKATHON

**Ms. MONIKA**  
Co-Convener : HACKATHON

# **ORGANISING TEAM - HEAD**

**Nishant Mishra**  
Technical Team Head

**Arusha Sharma**  
Documentation Committee  
Head

**Utkarsh Sharma**  
Hackathon and E-Sports  
Head

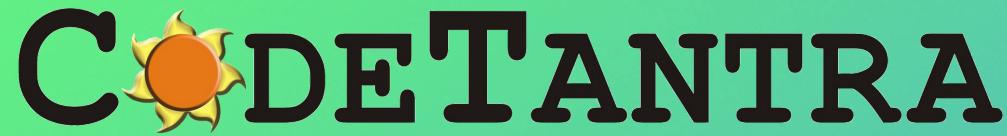
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Team Head

**Pratham Mohindru**  
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Committee Head

**Harsh Chaudhary**  
Registration and Promotions  
Committee Head

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