

ROBOTICS WORKSHOP

DO YOU WANT TO TURN YOUR DREAMS
INTO REALITY?

DO YOU WANT TO MAKE TECHNOLOGY
THAT WINS YOU LAURELS?

DO YOU WANT TO BATTLE IT OUT WITH
THE SMARTEST BRAINS IN THE COUNTRY?

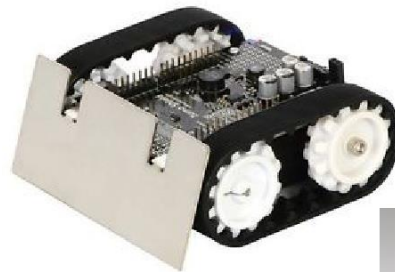


Then this is your chance, enter the field
of Competitive Robotics and let your
Robots do the talking for you.

AN INTRODUCTION TO ROBOTICS

UNDERSTANDING BASIC ROBOTS

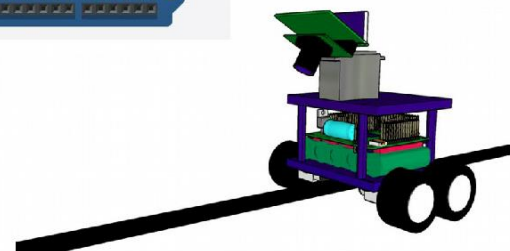
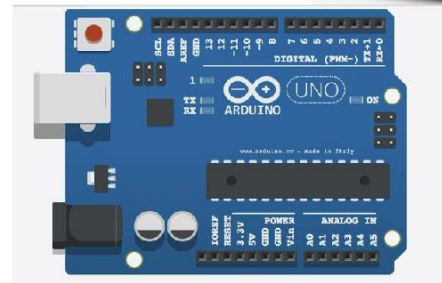
- 1) ROBO SUMO
- 2) ROBO SOCCER
- 3) ROBO RACING



AN INTRODUCTION TO ARDUINO

Each student will be given easy programmes to
write & then implement on Arduino. Further,
capabilities of Arduino will also be understood
hands-on by each student through following bots:

- 1) **LINE FOLLOWER:** Programming of sensors,
Assembly & Construction & finally, full live
demonstration of Line Follower doing its Circuit.
- 2) **SOUND BOT:** Programming of sensors &
Live Demonstration
- 3) **OBSTACLE AVOIDING BOT:** Programming of
Sensors & Live Demonstration
- 4) **RF CONTROLLED BOT:** Understanding
Receiver Technology & Circuit followed by
Live Demonstration

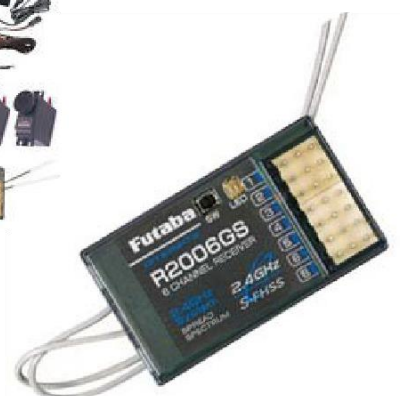


WIRELESS CIRCUITS

Receiver Technology, Constructing a Wireless Circuit &
Comparison: Wireless vs Wired Circuits.

All students will try to implement and understand a
Wired & Wireless Circuit

ALL THE ABOVE TOPICS WILL BE COVERED BY
PROFESSIONALS WHO HAVE WON NATIONAL
LEVEL ROBOTICS CHAMPIONSHIP



BUILD YOUR OWN BATTLEBOT: DREAMS TO REALITY

INTRODUCTION TO COMBAT ROBOTICS

1. Introduction to Combat Robotics

2. Drive Systems

Optimising Pushing force & traction

3. Materials and its Properties

4. Weapon Systems

Concept behind different Weapons, Weapon design And Balancing

5. Manufacturing Techniques

Advanced Manufacturing techniques

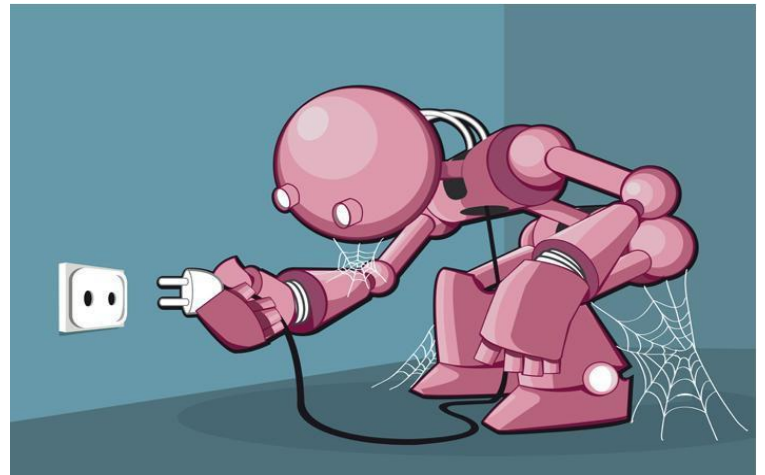
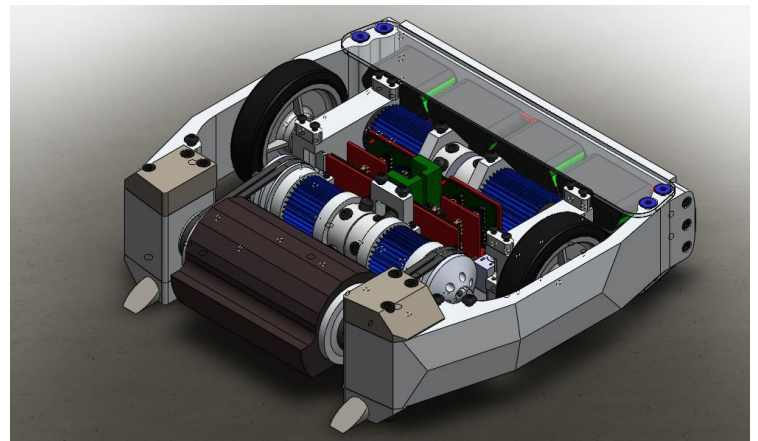
6. Electronics and Circuits

7. Control our Bots

Control Team Phoenix Bots as your own

8. Assembly Disassembly

Above topics will be covered by Professional Bot Builders, Winners of National Level Events



REGISTRATION FEE:

A. INDIVIDUAL: no kit included (cost per student)

1. Basic Robotics and Line followers: Rs.500/-

2. Basic Robotics and Combat Robotics: Rs.500/-

3. Full Workshop: Rs.750/-

B. GROUP OF 3: includes Line follower kit (Cost per group)

1. Basic Robotics and Line Followers: Rs. 2700/-

2. Basic Robotics, Line Follower and Combat Robotics: Rs. 3600/-

C. GROUP OF 5: includes Line follower kit (Cost per group)

1. Basic Robotics and Line Followers: Rs. 3500/-

2. Basic Robotics, Line Follower and Combat Robotics: Rs. 4500/-

D. ADD ON KITS: (cost per kit)

1. Line Follower Kit: Rs. 2000/-

2. Beginner Robosoccer Kits: 1100/-



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