

Facilities available in the Lab:-

The lab is equipped with Robot compatible computing systems having embedded C compilers, AVR studio, AVR Bootloader and STK 500 interfacing modules to burn hex files into the robots.

Convertibles:

Firebird V P89V51RD2 adapter card and Firebird V LPC2148 adapter card

Mountables:

Zigbee Modules, Metal gear Servo Motors, Servo Motor Based Gripper kits, Sharp infrared range sensors (10cm to 80 cm), L3G4200 3 axis digital gyroscope LSM303 3 axis digital accelerometer and 3 axis magnetometer, Gyroscope, accelerometer and GPS interfacing Module, GPS Receiver Sharp GP2D120C infrared range sensor (4cm to 30cm)

Tools:

Hand drills, hand grinders, multimeters, soldering irons, Bench Vice, PCB Soldering clamps, resistances, capacitors, hacksaw blades, pliers, hammers etc.

Our Faculty Team is mentored by IIT Bombay with 6 months long Task Based Training (TBT 2016).

Contacts:

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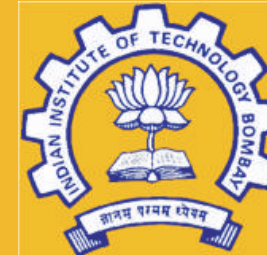
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The Education Group
(Estd. : 1995)



I.T.S ENGINEERING COLLEGE



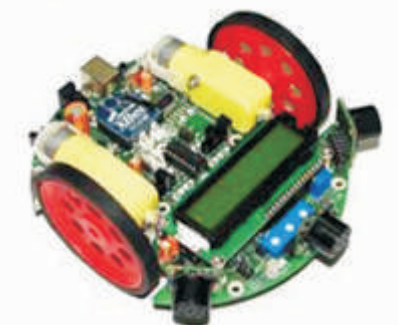
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सत्यमेव जयते

eYantra

Embedded Systems and Robotics Lab

Supported by e-Yantra Lab Setup Initiative (eLSI)-IIT Bombay
Funded by Ministry of Human Resources and Development
under National Mission on Education through ICT
(Information and Communication Technology).



Vision

To create the next generation of embedded systems engineers with a practical outlook to help provide practical solutions to some of the real world problems.

Mission

To participate in National and International Level Robotics Competitions and get enhanced in Embedded and Robotics skills to get summer internship with IIT Bombay and Embedded Systems and Robotics Industries leading to quality placements or opening up their own ventures as entrepreneurs.

I.T.S. The Education Group

I.T.S.- The Education Group established in 1995 empowers students with knowledge, skills and competency in the fields of Information Technology, Management, Dental Science, Engineering, Biotechnology, Paramedical Sciences and Pharmacy. The group is comprised of eminent academicians and professionals who have helped the group in grooming premier institutes.

I.T.S. Engineering College, Greater Noida

I.T.S. Engineering College is a NAAC accredited, A.I.C.T.E. approved, Dr. A.P.J. Abdul Kalam University, Lucknow affiliated college. It is a part of the conglomerate I.T.S.- The Education Group and was established in 2006 under the proven guidance of Dr. Bhure Lal, IAS(Retd.), Chairman, BoG. The college is committed for the provision of competitive engineering education, congenial environment to its students. The college is continuously working for industry-academia connect, collaborative research and entrepreneurship development. It is approved as a Business Incubator, under MSME, Govt. of India. As part of inter-disciplinary collaborative learning multiple industrial Centres of Excellence are established and are running successfully including National Instruments, SMC, Rockwell Automation Android Apps, System Morpho, Apple iOS, SALT Indian Testing Board.

The college has been awarded National Education Excellence -2015 by Honourable Chairman A.I.C.T.E., Govt. of India for outstanding contribution in creating industry-academia connect for the students.

The Department of Electronics & Communication was established in 2006 in the college. The faculty and students of the Dept. proactively participate and get trained from the Centres of Excellence. NI Innovation Centre and e-Yantra Lab are being co-ordinated by the Dept. of ECE.



Great Enthusiasm from our students!!!

our students are exhibiting great enthusiasm by participating in:-

- eYRC (e-Yantra Robotics Competition) 2016 for students conducted by IIT Bombay.
- eYIC (e-Yantra Ideas Competition) for teachers and students conducted by IIT Bombay.



Stages of Competitions:

- Online test
- Project Competition
- Task allotment
- Cash Awards and Summer Internship @ IIT, Bombay

Benefits to Students

- **Training** from certified faculties for competitions like eYRC, eYIDC (e-Yantra Ideas Competition) at regional and National level.
- **Projects** for their skill based learning
- **Research Projects** based on Robotics/Artificial Intelligence
- **Certification and Summer Internship** from IIT, Bombay
- **Consultancy** for Embedded and Robotics based Industrial Training and Placement

Future of Robotics /Artificial Intelligence and opportunities galore:-



Several Multinational Companies have already expanded to Robotics/AI and have even filed numerous patents in the field. These are - IBM, Siemens, Hitachi, Sony, Toshiba, Mitsubishi, Nippon Telegraphy & Telephony, Fujitsu, DataMinds...

Indian Major Startups in the field include - GreyOrange, Sastra Robotics, Hi-Tech Robotics, Tevatron Technologies etc...