Proposal-cum-agreement for organizing a workshop on robotics & science innovation "RoboVision"

Proposal for organizing and conducting a practical workshop on Robotics Science Innovation ‘ROBOVISION’ (in fully practical way with the learning by doing policy)

( EKLAVYA INNOVISION )

(On behalf of Department of Robotics & Technical Innovation, EKLAVYA INNOVISION)

(Director, Dept. Robotics & Technical Innovation, EI)

For the Principal's office use:
Proposal Received on:__________________________ Time:________________
Proposal Approved on:__________________________ Time:________________
Remarks:

Authorized signature & Seal:__________________________________________
place:___________
date:____________
Robotics & Electronics Innovation

In the present era of technological advancement & competition, where technology get changed within college span. Technical information & applications on the way of geometrical progression. The fast & accurate learning is the demand of present time and hence the structured learning strategy is our core requirement. As the fresh student to the college door are eager of learning & full of enthusiasm to the technology, we have to introduce them with the world of Robotics and Electronics in the practical ways to experience the power of Engineering to real world.

What we do at EKLAVYA INNOVISION?

Our core working policy is ‘Learning by Doing’ which is executed by exceptional expert in the field of Robotics education who have very vast experience and achievements during the college time and dedicated to the technical education. We are solely dedicated to design, develop and execute latest, practical and most economical Courses in the field of Robotics and Electronics.

Our unique features

a. Courses are followed by two days on-campus workshop for 12 Hours.
b. All theoretical portions are covered during the fabrication of robotics subsystem, testing and troubleshooting rather than wasting it in boring theory classes.
c. Our courses are most economical so that we ensure its reach to the whole.
d. Additional needful entities provided to keep the interest of student active in future, those are;
   i. Complete course booklet which helps to remind contents after completion of course.
   ii. The freeware software and tools.
   iii. State-of-art study material related with the contents of workshop course in soft copy.
   iv. Free demo kit for those who not enrolled for take away kit (the demo kit will retain back with EI after completion of workshop)
   v. A unique membership ID provided to every participants by which they can avail discounts in various services offer by us and free of cost online assistance.
   vi. Free IPR (intellectual property right) assistance to increase awareness towards IPR and enhancing the interest toward the unique work.
   vii. Lifetime online technical assistance for the registered student.
   viii. A participation Certificate from EKLAVYA INNOVISION to every participants
Proposal for School

The workshop will on the course “Robovision” and conducted in two days for 12 Hours, Where Students can learn basics of Physics and Electronics in practical ways by fabricating various innovative project and Robot during the workshop and same shall be there Science project.

Proposed date of workshop

  a. On-campus Introduction & Demo class has been conducted on TBD
  b. On-campus Robotics Science workshop dates will be TBD & TBD, 2014

Proposed Workshop Contents:

- Robovision (General Robotics & Discrete Electronics)

  This workshop is designed to provide direct communication with the experienced persons of engineering and technology field for motivation, courage and some sort of career related discussions along with very interesting interface of electronics hobby-project design process. In this we deal about some basics on electronics and workshop to induce students with knowledge, skills and practices which enable them to fabricate some Science project of their own choice. The workshop for two days (six hour per day), during this, sharp minds got involved in science project fabrication with full time availability of very experienced persons of these fields. Participation certificate, Robotics booklet for basic project building and one unique membership ID (by which they able to get life time project assistance) provided by EKLAVYA INNOVISION to the participants.

  Workshop Content:

  1. Introduction to Engineering fields and career opportunity.
  2. Introduction to Robotics and some demonstrations by functioning of Robots.
  3. Introduction to basic electronic components with practical testing.
  4. Theoretical aspect of Temperature alarm, light detector, smoke detector and other projects proposed by participated student.
  5. Circuit design for these projects and testing the same.
  6. Project fabrication, testing and troubleshooting of white line follower.
  7. Improvements real-life applications and future development of the deigned project.
• **Workshop fees and cost of kit**
  1. Registration Charges for attending the workshop (Compulsory)
     **INR250/- per participant** who want to take participate in two day workshop
  2. Cost of Kit will be **INR950/- per Kit (for a group of 4 Participants)**, This cost is optional students or Institution may arrange it on themselves but it is recommended to take from our Organization.

**Components of take away kit:**
  1. High performance DC motor with gear assembly 100 RPM (2 sets)
  2. High Grip wheel with frictional band (2 sets)
  3. Multi-Directional Wheel (1 sets)
  4. Multimeter (1 set)
  5. Robotics base (1 sets)
  6. Infrared Sensor Module (2 sets)
  7. Motor Control Circuit Board (1 sets)
  8. Visible Range Light Sensor (1 sets)
  9. Infrared transmitter (1 sets)
 10. Infrared Sensor (1 sets)
 11. High Duty LED (3 sets)
 12. LED Safety resistor (3 sets)
 13. Variable resistance (2 sets)
 14. Project Development Board (1 sets)
 15. Power Transistor (6 sets)
 16. DC Power Supply System 9 Volts (1 sets)
 17. Battery Connector (3 sets)
 18. Chart Sheet (2 sets)
 19. Soldering System (sharing basis and use only)
 20. Soldering system (sharing basis and use only)
 21. Adhesive (sharing basis and use only)
 22. Mechanical components
 23. Circuit simulation Tools

**Requirements from Institution**

  1. A lecture room as per the capacity of students (for 1+2 days, 6 Hours each)
  2. LCD projector and accessories
  3. PA system
  4. Power supply Backup
  5. Lecture board and accessories

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