

## **ABOUT:-**

**ROBO-GRAVITY** is a National Robotics Challenge & Workshop series, an initiative of team EXODIA, IIT, Mandi and ABLab Solutions; which will be conducted at Selective Outreach Centers (Engineering Colleges/Universities) all across India.

**ROBO-GRAVITY** aims to widen the student's perspective by providing a pool of resources and an exposure to real use of technologies. These series of workshops and Robotics challenge will be the most effective method in enabling the engineering grads to relate technical theory to practice. This event not only aims towards development of technical skills but also enhances certain life values like that of competitiveness & team play. With the help of this event, the students will fetch the opportunity to participate in the ever challenging technical environment at **Indian Institute of Technology, Mandi**.

EXODIA'14 to be hosted at Indian Institute of Technology, Mandi is a fest combining the best of science, technology, and culture. IIT Mandi, one of the pearls in the splendid tiara of The Great Himalayas, hereby takes a stride to add to the shimmer of the gorge by bringing forth its third Techno-Cultural festival 'EXODIA 2014', to be held on 7<sup>th</sup>, 8<sup>th</sup> & 9<sup>th</sup> of March, 2014. Exodia reflects Godly powers, the inexorable... in short the watchword of IIT Mandi. It is one of biggest event of Himachal Pradesh, which gathers a lot of crowd from schools and colleges of North India. We are the youngest member of the IIT family with an aspiration to achieve the epitome of brilliance in technical fields, hands on with a flaming yearning to bless the country with citizens bearing multidimensional personalities and this fest, the one and only of its own kind, will be a testimony to the above said.

The past technical events brought together students from distant corners of the country to put their brains and skills to test. Events like Dementia saw programmers from as far as China and Norway putting their coding skills to the test. Junkyard Wars had contestants from all over the nation designing and engineering machines out of scrap and derelict material.

## **PROGRAMME OUTLINE:-**

We are looking for “**SELECTIVE OUTREACH CENTRES**” across all Engineering Colleges/Universities in India; where the series of technical workshops will be conducted. We will be glad if we can select your college as one of our 'Outreach centre' for ROBO-GRAVITY, quenching the thirst of knowledge and opening doors for your students to take leverage of this wonderful event.

## **Requirements for Conducting Robo-Gravity Workshops:-**

1. A Seminar room/Auditorium/Lecture hall having enough space to conduct hands on practical sessions for all the participants.
2. At least two good quality cordless mikes to address the participants and Projector/Screen along with black/white board for teaching and presentation purposes.
3. A good Quality LCD Projector to deliver workshop.
4. Accommodation (Fooding & Lodging) for a team of max.3-4 experts from Robo-Gravity.

5. Local transportation from the nearest Railway station/Bus stop/ Airport.

### **STEPS to conduct National Level Outreach Rounds at your college:-**

STEP 1: Please send us Email or fill the Request form below with relevant details.

STEP 2: Finalize the dates of the Outreach center by telephonic conversation with Programme Coordinator of ROBO-GRAVITY on the following telephone number:

**Subhankar Satpathy (Programme Coordinator):**

**Mob:- 07855013001**

**Email Id.: robogravity@exodia.in**

STEP 3: Confirmation of the workshop through an MOU duly signed and sealed by the Head of Department/Dean/Director or any faculty in charge of this event.

STEP 4: The workshop round to be conducted at college campus.

### **Round 1 (WORKSHOP ROUND to be held at Outreach Centre):-**

1. Robotics & Embedded system workshops will be held at Outreach centers all across India.
2. To avail free participation in **EXODIA'14**; IIT, Mandi participants are required to attend the workshops at any Outreach Centre.
3. Workshop fee includes a 'Multipurpose Project based Kit', study material & software's which will be provided to each team (of max. 4 members) at free of Cost.
4. The Duration of the Workshop will be of 2 Days (8 hr/ day).
5. The Workshop will be delivered by experts from ABLab Solutions & team EXODIA; IIT, Mandi.
6. From every workshop, two coordinators will be given **free goodies** of **EXODIA'14** and **free participation** to all competitions held during **EXODIA'14** at IIT, Mandi.

### **Round 2 (Selection of the best team):-**

1. From every workshop a team will be selected based on their overall performance, creativity and technical skills.
2. Selected team will be awarded with “**Certificate of Merit**” and honored by **EXODIA'14; IIT, Mandi**.
3. All participants will be awarded “**Certificate of Participation**” and honored by **EXODIA'14; IIT, Mandi**.
4. All the volunteers assisting in organizing the workshop will be awarded “**Certificate of Appreciation**” and honored by **EXODIA'14; IIT, Mandi**.

### **Round 3 (FINALISTS hold a chance to visit IIT, Mandi):-**

1. Selected teams from all Outreach Centers conducting hand gesture workshop will be awarded a '**free pass**' to visit **Indian Institute of Technology, Mandi** & direct entry to final rounds of hand gesture robotics competition at **EXODIA'14** which is to be held from 7th to 9th of March, 2014.
2. Selected teams from all Outreach Centers conducting other workshops will be awarded a free pass to visit **Indian Institute of Technology, Mandi** and will be allowed free

participation to all competitions held during **EXODIA'14** at IIT, Mandi.

### **Registration Fee:**

The Registration Fees are

INR 4400/- per team for Robotics Workshops,

INR 5500/- per team for Embedded System Workshops,

INR 5500/- per team for Embedded Robotics Workshop.

Registration fee includes the cost of workshop + Multi-purpose project based KIT + Study

Materials + Softwares + Circuit Diagrams + Internationally Valid Certification from ROBO-GRAVITY.

### **WHO SHOULD ATTEND:-**

1. All BE/BTech/MTech/Diploma/B.Sc Electronic students, Electronics Hobbyists can participate.
2. Participants should have a valid ID card of their respective educational institutions/organization.
3. Team Specifications: A team can consist maximum of 4 members. Participants from different colleges may form a team.

### **WHY TO ATTEND ?**

Within years from now, it is foreseen that robots will increasingly insinuate themselves into our everyday life and it will become a necessity to a common man. Their functionality and ubiquity will outstrip the technology advancement and usefulness in everyday life. By 2050, we will finally achieve the original goal of robotics and a thematic mainstay of science fiction:

‘A freely moving machine with the intellectual capabilities of a human being’.

Thus for every single individual it becomes a responsibility to momentarily participate and outreach his/her evolutionary perspective.

### **ROBO-GRAVITY BENEFITS:-**

Students will get a chance to associate with the world class premier institution in the field of “Research and Development” and will be able to promote themselves towards the depth of research adding key skills of Innovation, Experimentation and Implementation.

- Name, Logo & website link of college/association/organizations will be published on our official website mentioning that **“You are our Official Outreach Partner”**.
- Live hands on session using a specially designed **“Multipurpose Project based Kit”**.
- Live demonstration of various Robotic Applications & a Chance to get associated with Internationally Acclaimed Institute of India, IIT, Mandi.
- Promotional mails will be sent to more than 1 LAKH users of our website about your

college.

- Posters and Flexes will be sent to you for effective regional publicity.
- Students will get an Internationally Valid Certification from a recognized university, Indian Institute of Technology, Mandi, ABLab Solutions and EXODIA.
- Participants will get a chance to improve their job prospects and get an edge over their Counterparts.
- Interactive Query sessions, Live Demos, PowerPoint Presentation & hands on training on the selected workshop module.
- Company will provide internship opportunity & free project assistance to the most active team.
- We shall provide assistance and guidance to all participating students for project and R&D work in future.

### **Make Your College An Outreach Center:-**

EXODIA'14 brings you the unique opportunity to experience the expertise of the workshops going to be held at IIT Mandi through its "Outreach Workshop" initiative. We will be conducting a large number of workshops around the country. So gear up, assemble some students from your college and give us a call and make your college the Selective Outreach Centre.