

Workshop on Robotics

From 03-09-2011 to 04-09-2011

**ClassBots Club,
Sushila Enclave, Lowadih,
Ranchi-834010
Jharkhand, India**

**The Institution of Engineers(India),
ET Division, Department of ECE,
Birla Institute of Technology, Mesra,
Ranchi-835215, Jharkhand, India**

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Coordinators

- 1- Himanshu Bablani
- 2- Rahul Ranjan
- 3- Archeet Srivastava

Organizing Secretaries

- 1- Prof. S.S. Solanki
- 2- Dr. Vijay Nath
(Advisers IEI Club, ET Division)

Dear Sir/Madam,

I am glad to inform you that **Classbots Club, Ranchi & The Institution of Engineers (India)**, ET Division, Dept. of ECE, Birla Institute of Technology, Mesra , Ranchi are collectively going to organize an introductory **"Workshop on Robotics"** on **Sept 03-04, 2011** for both School Students and Engineering Students.

This workshop is directed towards satisfying the demands of industry for **trained man power in Robotics & Automation**. This workshop will cover theory with practical, on available advanced technology tools. Lectures will be delivered by the Course experts in a simplified way so as to encourage more number of Students towards Robot Design and Development. **I request you to kindly circulate this notice among the students.**

Workshop Objective: On successful completion of this workshop, students will be able to

1. Make Robots like Automatic Guided Vehicles(AGVs), obstacle avoiders etc
2. Make MCU based Automated systems like Automatic Alarm System, Smart Street Lightning System etc
3. Program the Robots/Automatic systems in Embedded C language.
4. Identify the various Career Opportunities in the field of Robotics and Automation.

Qualifications :

School Students C.B.S.E./I.C.S.E./International Board

Engg. Students Any Branch

Fees:

School Students: Rs.600/- per student (Rs.500 workshop fee + Rs.100 Class Bots Registration fee)

IEI members: Rs. 500/- per student

Non-Members: Rs1000/- per student

Note:

- 1- Club will provide **free online** workshop Materials.
- 2- **Last date of registration is 02-09-2011**
- 3- Registration will be on **first come first basis**, Total 60 seats available.

Yours sincerely

- 1- Himanshu Bablani, himanshu@classbots.com, 9955166026 (Former Student of BIT Mesra)
- 2- Rahul Ranjan, rahul@classbots.com, 9546775676 (Former Student of BIT Mesra)
- 3- Archeet Srivastava, archeet.sriya@gmail.com , 9546184876, (President, IEI, ET Division, Dept. of ECE, BIT Mesra)



Vice-Chancellor, BIT Mesra Ranchi :**Prof. Ajay Chakraborty** is addressing the gathering of **Workshop on Robotics** during inaugural session on 03-09-2011.



A group photograph of participants and faculty members (from left **Prof. Kartik Mahato**, **Prof. S.S. Solanki**, **Prof. Vijay Nath**, **Prof. Priyank Saxena**) of **Workshop on Robotics** on 04-09-2011.



| Sunday, September 4, 2011 |

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Geek's date with robots

OUR CORRESPONDENT

Ranchi, Sept. 3: It was the perfect platform for those fascinated with the idea of using gadgets to make life simpler. A two-day workshop on robotics and automation, which kicked off at BIT-Mesra today, provided both experts and novices the opportunity to delve deeper into the exciting universe of robots.

Organised by the student chapter of Institution of Engineers India (IEI), BIT-Mesra and ClassBots — a robo club formed by the varsity's alumnus — saw as many as 60 participants, including school students, learn the intricacies of putting together a robot.

Archeet Srivastava, president of the IEI's students chapter said it was for the first time that school students had been invited to attend the workshop. "The idea is to teach enthusiasts about robotics and automation in layman's term. No prior knowledge of either micro-controllers or programming is required," he said.

The two-day session will involve both theoretical and practical simulations. On completion of the workshop, the student will be able to identify the robotics board and its software, read data from sensors, control LED, DC motors and buzzers and make smart systems.

"By the end of the workshop, we are hoping to train every participant to develop smart systems such as smart cars that are able to move with the help of sensors, LEDs etc," said Srivastava. He added that the participants were not required to carry any equipment as they were providing them with every material.

Not only this, each participant will be given a one-month free membership to ClassBots Club — a newly inaugurated robotic club in the city where enthusiasts can turn up at any time to work on the available micro-controller units and sensors to design their dream machines.

Guest lecturers Vijay Nath and S.S. Solanki, both BIT's designing and instrumentation experts, demystified robotics for the participants.

"Robotics is both a technology of the future and a field of passionate interest. The workshop will help generate trained manpower in the field of robotics and automation in an industry that is slowly moving towards complete dependence on it," said Solanki.

Talking about the scope of robotics, Nath said automation of manufacturing plants and surgical environments would lead to lesser flaws as human error and distraction would be removed in the process.

"The whole process of removing humans will not lead to unemployment because the people who are now workers in factories will then transform as technicians on the automated plants. Not only this, a higher efficiency, safer working environment and better production quality will also be attained in the due process," said Nath.

New every hour.

बीआईटी मेसरा में दो दिवसीय वर्कशॉप शुरू बीआईटीयंस को मिलेगी रोबोट की जानकारी



बीआईटी में आयोजित वर्कशॉप में शामिल छात्र।

भास्कर न्यूज. रांची

रोबोट के निर्माण और उसके कार्यप्रणाली विषय पर बीआईटी मेसरा में दो दिवसीय वर्कशाप शनिवार से शुरू हुई। इसका उद्घाटन करते हुए बीआईटी के कुलपति एके चटर्जी ने कहा कि इस वर्कशॉप के माध्यम से बीआईटी समाज को वह लौटा रहा है, जो उसने लिया है। वैसे छात्र, जो बीआईटी से प्रत्यक्ष रूप से जुड़े नहीं हैं, वे भी वर्कशॉप का लाभ उठा सकते हैं। पहली बार स्कूली छात्रों को भी वर्कशॉप में

आमंत्रित किया गया है। उन्होंने कहा कि ये छात्र आने वाले समय में देश के भविष्य तय करेंगे। इनको इसका लाभ मिलना ही चाहिए।

बीआईटी के इंस्ट्रुमेंटेशन एक्सपर्ट एसएस सोलंकी, डॉ. विजय नाथ और क्लास बूट्स क्लब के राहुल रंजन ने भी रोबोटिक्स वर्कशॉप के बारे में जानकारी दी। उन्होंने कहा कि आने वाले दिनों में हर इंडस्ट्रीज की यह जरूरत होगी। रविवार को वर्कशॉप में शहर के विभिन्न स्कूलों के छात्र हिस्सा लेंगे। वर्कशॉप में छात्रों को रोबोट बनाने का भी मौका मिलेगा।