Department of

Mechanical Engineering

20th - 21st January, 2012

SMT. S. R. PATEL ENGINEERING COLLEGE

Workshop Report

TWO DAYS WORKSHOP ON "INDO-US ROBO LEAGUE 2012"

Objectives:

- To improve the academic performance of the students by providing non-syallubus inputs and training in the field of Robotics

- To get Practical Exposure that will address Knowledge Enhancement and Skill development among students

- Make resume of the students better and create better employability for students

Course Instructors:

Personalities from **Technophilia systems, Mumbai** were invited for expert lecture and conducting the workshop. The key instructors are:

1. Mr. .Tapan K. Palei

2. Mr. Arun Goud P.

3. Mr. Sanjay Walve,

4. Mr. Jainish Kothari,

Summary:

A two days robotic workshop is conducted on both " AutoBoltz AVR" and "i – touch Robotic Arm"

Total of 208 students have participated in both the workshop series.

The winner of both the workshop series had got a wild card entry in the finals of IURL 2012 at IIT, Mumbai

Practice Given By

Technophilia systems

Day 1: Inauguration, Workshop on Basics of Robotics
Day 2: Hands on practice by students and competition

Day 1

The workshop was on the basic of Robotics.

The participants were taught how to build and operate simple Manual Robots during the First day course of the workshop.

Day 2

It was a Hands on Workshop on Autonomous Robotics and Embedded System.

This was achieved by imparting micro controller Programming skills and developing Robot Programming assembly and testing skills. A theory was followed by hands on session of Day 2 Workshop

Course Participant

Workshop was fully organized for faculties and students of all the Engineering branches of the College

Semester	Total No. of students
IV	100
VI	108

WORKSHOP PLATE

Student's Feedbacks:

1. The workshop brought the real excitement while having practical session on wired Robotics kits.
2. Really astonishing and superb experience during the practice session.
3. It is very good to have these kind of workshop as it brings practical exposure apart from theory subjects.

Topics covered during Workshop:

UART Communication Protocol:

- Communication between PC and Microcontroller
- Interfacing touchpad with PC

Microcontroller Programming Software:

- Basics of programming
- Introduction and Embedded c Programming
- Use of Win AVR Compiler

Robotics Arm Control:

- Controlling the DC Motors.
- Interfacing robotic Arm with Microcontroller
- Controlling the Robotic Arm with Switches