



GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY



Robotics Club

Report on “Events from June 2014 - May 2015

The project initiated at the start of the 1stsem for the 4th years of IT department had commenced with 6 people forming a group under the guidance of Asst. Prof P.K.Abhilash with an intention of utilizing the field of Robotics in way that it would benefit the College and its students by showing the use of robotics in different branches of engineering. Robotics was chosen due to the immense amount of usage with regard to making the day to day life of a human better.



As this team progressed and started to promote the usage, benefits, applications of robotics in different fields it caught the attention of many such students who were interested to join the Robotics Club and it soon grew to become a 12 member club. As the sessions were being delivered on the different aspects of robotics, the students had a fair idea of how and where can robotics be used across different platforms. The group also worked on few special robots which would help the functionality of the department.

Following is the list of members of Robotic club for the academic year 2014-15:-

Faculty In-charge:-

- Dr.Y.Vijayalatha - HOD,IT-Dept.
- Y. J. Nagendra Kumar - Associate Professor, IT Dept
- P.KAbhilash - Asst.Professor,IT Dept.

Student Body:-

- M Varun
- M Sowmya
- N Nishitha
- G.Vinod Chandra Kanth
- D SaiRam
- PanditAbhilash
- UdayKiran
- Abhijit
- M KanulkaChowdary
- S SakethReddy
- Purshotham
- Srinivas
- M Manoj Reddy

The Symposiums

1st Meeting

On Jul 31st 2014 Distributed work among the members and the governing council was formed with Machanapally Varun(president), Maram Sowmya(vice-president), Nishitha N, Gattu Vinod Chandrakanth(Finance Manager), Uday Kiran,Sairam(Event Manager), Pandit Abilash, Abhijit(Marketing Manager),Saketh Reddy, KanulkaChowdary (Information Manager) under the guidance of Abilash sir

2nd Meeting

On Aug 4th 2014 with the group members in the room 1208 at 2:30 pm to 4:00pm we had a discussion about the robotics website and planning for a workshop and even had a discussion about the session that has to be taken for 3rd yr B section

3rd Meeting

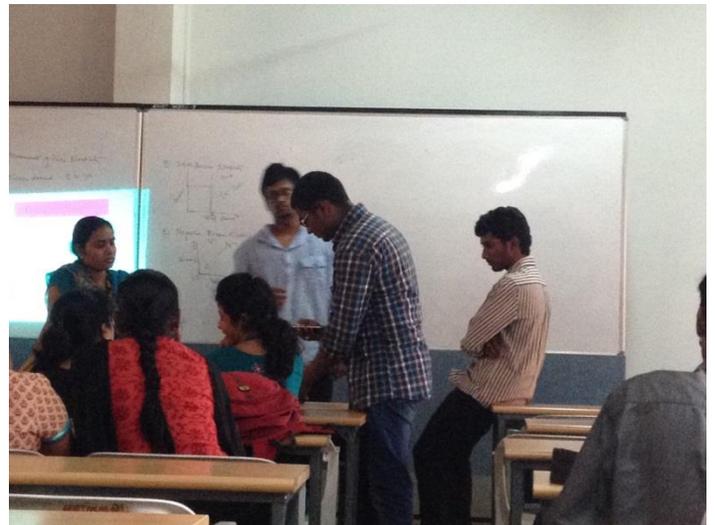
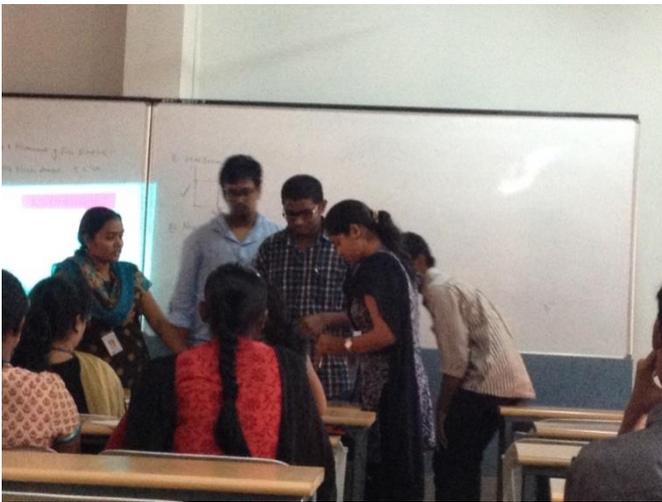
On Aug 8th 2014, the discussions about the workshop which was going to happen in September were done. Planning about the publicity and works which should take place during workshop with the guidance of Abhilash Sir and HOD Ma'am was done.

4th Meeting

On 13th Aug 2014, assigning of works among the people was done and the promotions of the workshop were decided to be started along with an information seminar dealing about the topic of the workshop was decided.

Information Seminars

The members of the robotics club had held these Information Seminars in which they had gone to different classrooms of students studying in GRIET in order to spread about the Robotics as a field as well as gathering the interested students who would want to work with the robotics club in order help with the making of robots.



This turned out to be a huge success as huge number of students had registered themselves to be a part of the club. The interest shown by these students was commendable. Hence the Information Seminars helped a lot in the publicity of the Robotics club as well as the Workshop which was to be conducted.

Robotics Workshop

Over a 150 students from all B.Tech colleges had gathered for the event "Biped Robot" conducted by Robotic Club, GRIET on, October 16th and 17th. Akshya Shah was the speaker of the event "LEGGED ACCELEROBOTIX"

Day 1:

On 16th October the 1st session started at 10:00am with a introduction speech about the Robot with few valuable points about robots and gave a lecture about functioning of "Biped Robot ". The workshop was conducted in such a way that the basics were made clear for everyone who attended the session. Starting from the basic functioning and programming of arduino, it was all taught to the students so as to make the programming of the robot easier. The kits were distributed among the students. There was a lunch break of 45 minutes after the break session-2 started with the introduction of the kit components. Every component in the kit was explained it detail and the purpose of it.



DAY 2:

On 17th October the session-1 started at 10:00am with the assembling of biped robot kit and programming on Arduino (32bit) as per the requirements of the bot. He taught more programs on arduino code to make a robot walk, forward walk, reverse walk, 90 digress rotation, 180 digress rotation till 1:00pm .After a break of 45 minutes, the students were given a chance to showcase their robots and were even given a chance to give their ideas and inputs regarding the robot. And in the end there was a competition among the robots that were built by the students and the top 3 teams who won were given certificates by the HOD of IT department.

