



GUJARAT TECHNOLOGICAL UNIVERSITY

Robotics Research Group

Report of a meeting of the

ROBOTICS RESEARCH GROUP

Sunday 12th April 2015

5 pm to 7 pm

Venue: Conference Hall, Block-6, Gujarat Technological University, LDCE Complex,,Navrangpura, Ahmedabad

AGENDA:

1. GTU plans to organize series of workshops & seminars on advanced technical topics for GTU students at CiC3.
2. Plan for a massive event in the beginning of the 7th semester to introduce students with various projects and giving them hands on experience which may give them confidence to take up quality projects by themselves.

Coordinated By: Mr. Naresh Jadeja (Deputy Director-GTU) & Asst. Prof. Krutika Bhagwat Paradkar & Asst. Prof. Bhadreshsinh & Mr. Mihir Makwana

A meeting of the ROBOTICS RESEARCH GROUP was organised for Faculty Members, who have an interest in the area. .Mr. Naresh Jadeja Deputy Director-GTU shared the vision of the Honourable Vice Chancellor of GTU - Dr. A. K. Aggarwal for forming a network of the Robotics Research Group. He asked them to join & coordinate the workshops related to final year BE PROJECTS. He asked Faculty Members to start interacting with one other to take lead in the Robo Research in terms of organising the workshops in 5 different zones on different topics which are related to ECE, EEE, Computer Science, IC, EC, CE, IT & others.

Mr. Naresh Jadeja discussed about plans for CiC3 lab & asked the Faculty Members to come up with plans for organizing workshops for the CiC3 lab.

Prof. Kinnar Vaghela from GEC Modasa suggested to do 5 MEGA events before the beginning of the 7th semester to create an awareness about selection of the the final year project. The Mega event may be named as “**Know your projects before your training**” or “**Boost start-up of B.Tech Projects**”. The time-table of the mega event may be as follows:

- 4 hours workshop planning (2 for Presentation and 2 for group meetings)
- GTU Project guidelines slides
- Why projects?
- Approach towards projects



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- Importance of Project
- Hardware Developments
- Firmware Developments
- Flow of Electronics Product Development
- PCB design ready after the 7th Sem
- Time Management (Plannings of the projects- Gantt Chart)
- Open source platform –advantages of open source platform
- Brief Information about Raspberry Pi, Arduinio board and beagle board.
- Interfaces
- Video Recordings about lectures
- How to do customization of the boards
- References like kickstarts.com
- Blog writing of the projects

Prof. Satyadev Vyas from Ahmedabad Institute of Technology asked to arrange a workshop on LAB VIEW & related topics in Embedded systems plus practical robotics.

Prof. Patel Rahul Ganpatbhai from Sankalchand Patel College of Engg asked for workshop on basic software which will be used by students in projects related to Electronics & Communication Engineering like "**Keil μ Vision- An Embedded System Development Tool**".

Prof Priyam Parikh from SAL college of Engineering, Ahmedabad asked for workshops on Mechatronics, Arduino, MATLAB and wireless systems, MATLAB GUI, MATLAB Data Acquisition, sensor, control and actuators .

Prof. Bhadreshsinh from GTU PG School asked for workshop on basic software & Computer languages which will be used by students in software-based projects.

Prof. Devang Shah from LJIT shared his knowledge about sensors technology.

There is one person in IIT, Bombay. His name is Kavi Arya for Fire bird. She can help us for arranging some hands -on session for Fire bird robots.

References: For the Fire bird at IITB

<http://www.nex-robotics.com/testimonials/prof-kavi-arya.html>

<http://www.cse.iitb.ac.in/~kavi/>

<http://www.nitdgp.ac.in/nit11/wsrobotics.doc>

<https://www.linkedin.com/pub/kavi-arya/1/33b/52>

The meeting ended with a vote of thanks by Mr. Naresh Jadeja,