GUJARAT TECHNOLOGICAL UNIVERSITY

Report on

Two Session of one day Workshop on

PROJECTS, LET'S MAKE IT!

17th June 2015

CiC3

Community Innovation & Co-Creation Centre

Room No: 128, Gujarat Technological University, ACPC Building,
L.D. Engineering College Campus,
Navrangpura, Ahmedabad

GUJARAT TECHNOLOGICAL UNIVERSITY

Community Innovation & Co-Creation Centre

Report

Every final year students of GTU need to take up a problem as a project that continues for two semesters, this is covered under the subjects Projects-1(Sem 7) and Projects-2(Sem 8). There are many possibilities of utilizing the knowledge acquired during learning engineering and design or develop something that can help society, at the same time this process will help student to develop his/her carrier in the technical field.

To help the new entrants in the final year, GTU-CiC3 organized a one day Mega Event named "Projects, Let's Make it"-An event to explore; What, How & Where about Final Year Projects. On 17th June 2015, 2 session of this event were organized at GTU's chandkheda campus where the new entrants of GTU Sem 7 from EC, Electrical, IC, Biomedical, ETC and EEE students were invited. Objective of the workshop was to give students information about industry trends, availability and resources of online help and how to think innovative projects from day to day life. It covered topics such as -

1. Introduction to Projects as a part of GTU Curriculum
2. Projects Possibilities as an Under Graduate Student
3. Electronics Product Development Cycle
4. Boost your development using Open Source Development Boards
5. Arduino Boards
6. Raspberry-Pi
7. Beagle Boards
8. Other Industry Sponsored sessions on AVR/PIC/MSP or others

Prof. Krutika Paradkar welcomed participants and introduced the mentors of the event to the students. Mentors of the workshop Prof Kinnar Vaghela (GEC Modasa), Prof Priyam Parikh (SAL engineering college) and Mr Pratik Parmar (Entrepreneur) were felicitated by bouquet of flowers.

Shri Naresh Jadeja (Dy. Director GTU) in his welcome speech introduced initiatives of GTU for students. He explained the need of such kind of workshop along with motivating students of circuit's branch. He requested every participant to take final year project as one of the best learning experience of their life and enjoy the engineering through projects. He explained vision of Honourable Vice Chancellor Dr Akshai Aggarwal and read the message sent by him for the participants of this workshop.

A special message –

I am pleased to welcome and inter-act with the Final Year students at the 'PROJECTS, LET'S MAKE IT!', organized by GTU's Community Innovation & Co-Creation Centre.

All over the world, the Final Year project is the capstone of engineering studies. By the 6th semester, you have learnt about the fundamentals of your discipline. You have, hopefully, also learnt how to search for things, you do not know and how to learn them yourself.

At the beginning of the 7th semester, you are required to start synthesizing your knowledge to design a new/ an improved product or to design a new/ an improved process. Then you are supposed to implement the design, preferably in a working model. The Final Year project is of two semesters in most of the disciplines and is usually done by teams of about 3 students.

GTU wants a Final Year project to solve some problem of an SME or even of a large industry. Alternatively GTU wants a Final Year project to solve some social problem.

To locate a problem and to obtain the problem definition, Design Thinking methodology provides an excellent way. Even if you have already found a problem for your Final Year project, please look at the Report of the experiment that 16 Faculty Members performed over four days at our web-site at http://www.gtu.ac.in/circulars/15June/16062015_17.pdf. The methodology has been described in a number of Reports and Guidelines on GTU's web-site. A Final year project requires hard work, it requires team work and it requires a continuous inter-action with the mentors. But this effort will bring satisfaction and pleasure to your team. Creation of anything new is a tough but an enjoyable process at the end.

When you present your project at the Final Examination, I want you to be proud of your work. I want your College to celebrate the day these projects are presented. I want you to present your Report with confidence at every interview for a good job. An excellent project leads to a great first job all over the world and I am sure, it will be true for you also.

Wishing to you a great Final Year at GTU,

Dr.Akshai Aggarwal

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First session was on 'Introduction to Projects'. Prof Kinnar Vaghela discussed the "Introduction to Projects" as a part of GTU Curriculum. He explained the process of project and gave idea about how student can choose the project to develop his/her skills. He shared various experiences of his career about mentoring and guiding final year projects.

Prof Mitesh Solanki (Asst. Professor GTU) in his session **"Project Possibilities as a UG Student"** explained various possible project areas on which student can make the final year project. He explained various fields of projects like Communication, Embedded System, VLSI, Automation and DSP.

Prof Hemal Nayak(Asst. Professor GTU) gave presentation on **"Electronics Product Development cycle"**. The presentation covered Electronics Product Development cycle & it's important to final year students, various steps for electronics product development, how to troubleshoot any electronics problem and common problemS come during testing.

Prof Priyam Parikh from SAL College of engineering gave presentation on **"Arduino Board".** He introduced different types of Arduino boards. He demonstrated working Arduino board with different interface like Ultrasonic sensor and LED. He explained different use of Arduino boards and how students can do innovative projects through Arduino Boards.

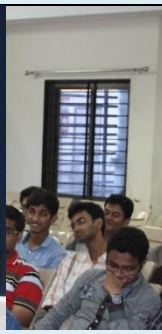
Mr Pratik Parmar in his presentation discussed about various boards includes **"Raspberry Pi, Panda board, beagleboard , Google Glass , Brain Wave Sensors , Intel Galileo Board".** He discussed different specifications of each board. In various projects which Board is suitable was explained by the mentor. Mr Pratik explained about different sensors that are used by industries nowadays. He demonstrated Brain Wave sensor and Google Glass.

In further discussion, he explained students about wearable technology and IOT. How the whole IOT works and which kind of future internet will create in the field of Electronics.

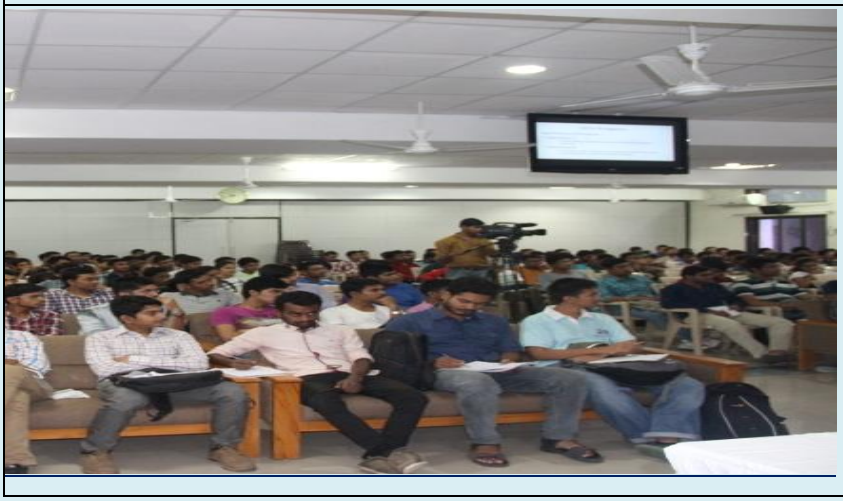
Research Assistant Mihir Makwana explained students about **"Concept of CiC3"** and how students can apply for their projects in CiC3 Lab. He explained different facility available in CiC3 lab. He also gave details about workshop and Hackathon that regularly organized by CiC3.

In the Second session **Dr. Rajul Gajjar**, **I/c Vice-Chancellor** discussed with the students about what they got from this event and what improvements they for this event, so GTU can replicate this to all 5 Zone. In question answer session, students gave suggestions about more live Demo and workshop for different hardware/software. Students shared their issues regarding finding definition which is innovative. Experts gave solutions to different quarries of students.

At the end of the session, Mr. Mihir Makwana presented the vote of thanks to the experts, participants and students. Total 285 students from 36 colleges participated in this event.



CiC3



ADNA 18-6-15

GTU pushes students for creative final yr projects

dna correspondent @dnaahmedabad

Gujarat Technological University (GTU) organised an event called 'Projects, let's make it an event to explore: What, How & Where about Final Year Projects' at its Chandkheda campus on Wednesday. The event was organised to encourage creativity and innovation in final year projects.

At the event, professors from

various GTU colleges mentored the students. Akshai Aggarwal, vice-chancellor, GTU said, "All over the world, final year projects is the capstone of engineering studies. GTU wants the students' final year projects to solve problems of an SME or even of a large industry. Alternatively, GTU wants final year project to solve social problems as well."

Sanobar, a student from Vishwakarma Engineering College said "Now we can complete our project without taking anyone's support."

GTU will mentor 400 students

TIMES NEWS NETWORK

Ahmedabad: To encourage creativity and innovation in final year projects, Gujarat Technological University (GTU) organized an event named 'Projects, Let's Make it, An event to explore; What, How & Where about Final Year Projects' at GTU Chandkheda Campus.

Professor Kinnar Vaghela, GEC Modasa, professor Priyam Parikh, SAL College of Engineering and entrepreneur Pratik Parmar as well as faculties of GTU's CiC3 program provided the training to students in two sessions.

Akshai Aggarwal, vice-chancellor, GTU said that all over the world, the final year project is the capstone of engineering studies.

GTU wants a final year project to solve some problem of an SME or even of a large industry. Alternatively GTU wants a final year project to solve a social problem. To locate a problem and to obtain the problem definition, design hinking method provides an excellent way.

વિદ્યાર્થીઓને GTU દ્વારા તાલીમ અપાઇ

અમદાવાદ : ગુજરાત ટેકનોલોજિકલ યુનિવર્સિટીએ ફાઇનલ વર્ષના વિદ્યાર્થીઓના પ્રોજેક્ટસમાં સર્જનાત્મકતા અને ઇનોવેશનને પ્રોત્સાહન આપવા માટે 'પ્રોજેક્ટસ, લેટ્સ મેક ઇટ, એન ઇવેન્ટ ટુ એક્સપ્લોર, વોટ, હાઇ એન્ડ વ્હેર એબાઉટ ફાઇનલ યર પ્રોજેક્ટસ' કાર્યક્રમ જીટીયુના ચાંદખેડા કેમ્પસમાં યોજાયો હતો. જેમાં વિદ્યાર્થીઓને બે સેશનમાં તજજ્ઞો દ્વારા વિશેષ તાલીમ આપવામાં આવી હતી.

Feedback from Participants:

- Overall very nice event, I would like to attend few more seminars and workshops of cic3.

  -ABHINAV JHA, Ahmedabad institute of technology

- The event was very well organised and would be keen to join many more. Excellent!

  -Hitesh Lachhwani, Babaria Institute of Technology

- Felt good and was the step in the right direction.

  -D Arjun Rao GEC Gandhinagar

- It was appreciable effort by the team of GTU to encourage the students towards their field of interest. Your team was capable to share wide range of knowledge and boosting up the interest in their respective working field. I feel thankful to the team for organizing such event and also hope to keep continuing with advanced ideas and techniques.

  -DEBASHISH MAHATO, Government Engineering college, Modasa

- The session was good, we get much more knowledge about automation and How to choose the project.

-Brijesh R Joshi, Grow More Faculty of Engineering

- I like this event and I really understand what to do and when to do in our life and project and each and every activity to be a part of our life. I am thankful to the faculties who support students for improving knowledge of technical field, and for creative ideas also. I feel excellent.

-Patel Mayurkumar Ramabhai, Grow more Group of Institutions

- Very good and really ...I was blank till this event and I am EC student, so really you gave us new ideas n also new technology knowledge.

-Bhatiya Hepi K., L.D.College of Engineering

- Nice effort by Team CiC3 which is worth appreciating. However the seminar could have been more useful if duration of session was a bit longer so that every topic could have been explained in detail. Also since major part of seminar focused on subjects related to EC, electrical and other branch people though gained some knowledge but this knowledge was not useful for final year project.

-Shubham P Rathi, Lukhdhirji Engineering College Morbi

- I attended the workshop on "Projects let's make it"" on 17th June, morning session. And workshop was very good and helpful for final year project. Thank You GTU, CIC3

-Shalin Kathiriya,NSIT, Jetalpur

- I enjoyed this event and learnt how to search things.

-ABIN JOLLY, PARUL UNIVERSITY

- Thank you, I would like to tell you all. Actually the day before I attended a workshop, I went in my collage to register my project. My sir said it's not innovative so come up with some innovative idea. I was confused. After that sir told me about the Workshop so registered and came. After attending this workshop, I am confident and now I have some ideas which I already had thought of implementing but was not able to because of lack of information. Now as I know something about it by this workshop, I will be able to implement the idea. Thank you all for arranging such workshop.

-Bharwad Bhavesh, SAL Institute of Technology and Engineering Research

- Really super events organisation, thank cic3 and GTU.

  -Jignesh Oza, S K College of Engineering, Visnagar

- This was very nice event and it really turned my thinking about GTU and thank you GTU for providing us biggest support as a name of CIC3.

  -Darshil shah, Venus International College of Engineering and Technology

- Yes, this event is worth. Student will get the path to decide the unique title for the projects. Thanks to GTU which provides this kind of platform for the students

  -Urvish, VGEC