

**GTU INNOVATION COUNCIL**

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Date: 14-5-2015

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## **UDISHA CLUB**

**Campus Activity Report of  
April- 2015**

**(Om Engineering College, Junagadh)**

**Mr. R.J.Padariya**

UDISHA Club Co-ordinator,  
OM Engineering college, Junagadh

**Dr. H.M. Nimbark**

Director/Principal,  
OM Engineerincollege, Junagadh  
Co-chair, Junagadh Sankul.

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## Electrical Department

SR NO.	ACTIVITY INFORMATION
1.	<p><b>Activity : “ElectOM Job Fair 2015”</b> <b>Type : Job Fair</b> <b>Date: 11<sup>th</sup> April 2015</b> <b>Venue: Om Engineering College, Junagadh.</b></p> <p>“<b>ElectOM Job Fair 2015</b>”, First in the history of Junagadh held at Om Engineering College, Junagadh by the department of <b>electrical engineering</b> for all the diploma electrical students as well as degree students.</p> <p>In this job fair more than <b>290 students</b> are participating from the <b>different college for the ElectOM Job Fair</b> campus drive. In this campus drive <b>more than 20 companies</b> are taking the responsibility to finding the talent from the all participants.</p> <div data-bbox="233 743 870 1115"></div> <div data-bbox="911 743 1495 1115"></div> <p><b>Inauguration Process:</b> After the completion of registration process we are Welcoming our <b>Chef guests Mr. Rajesh Chudasama (MP)</b> on the behalf of Om Parivar Also welcoming our <b>Guest of Honor Mr. Yogi Padhiyar sir &amp; Mr. Davesir.</b></p> <div data-bbox="233 1289 862 1667"></div> <div data-bbox="906 1289 1500 1667"></div> <p><b>Now it’s time to welcome our participants &amp; companies representatives:</b></p> <p>We have welcome more than <b>30 representatives</b> from the different <b>21 different companies.</b></p>

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Company List with representative		
Sr no.	Company Name	Representative
1.	Ascent Engineers , Ascent ElectrificationEngineers Rajkot	Mr. Pritesh Pandya
2.	ATUL MOTORS PVT LTD RAJKOT	Mr. Ashraf
3.	AEC Bearings Junagadh	Dr. Priti Mehta
4.	Fairdeal Power Controls Ahmedabad	Mr. Sanjay Panchani
5.	Falcon Rajkot	Mr. Sojitra
6.	Hi-Tech Power Transpower Pvt. Ltd. Rajkot	Mr. Vishalchauhan
7.	JBS Enterprises Pvt. Ltd. Rajkot	Mr. Kuldeep Shekh
8.	Om Power Transmission Private LimitedAhmedabad	Mr. Khokhar sir
9.	Parikh Agency - Jamnagar	Mr. Hansil Dave
10.	Pratik Transpowerpvt. ltd. Rajkot	Mr. Sandeep Donga
11.	RajatVinyls Pvt. Ltd.	Mr. Mitul Sir
12.	RAJOO Engineering LTD	Miss Sneha Desai
13.	Samarth Enginnerspvt ltd Jamnagar	Mr. Govindbhai
14.	Setu Industries Rajkot	Mr. Mahendra Parmar
15.	Silver Pumps Rajkot	Mr. Anand Chamadiya
16.	Simms Engineering Ltd Porbandar	Mr. Thakkarbhai
17.	suzzlon ltd	Mr. Ashish Makwana
18.	SYNERGY TRANSFORMER KESHOD	Mr. Rajesh Patel

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19.	Magotteaux industries pvt ltd	Mr. Arvind Yadav
20.	Krishna Electricals( ultratech) kovayaRajula	Mr. Kanji Patel
		And Their Team...

## Knowledge Test:

We have arranged written test for scrutinizing students for the interviewing process, total 289 students appear in written test and out of 289 we select 60% of students for the interview process.



## Interviewing Process:

On the basis of written test we displayed merit list and on the basis of the merit list we are starting the priority wise interview process & also we gives the flexibility to students to take part in all company's interview process on the basis of merit number wise.



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## CONCLUSION:

**ElectOM Job Fair – 2015** was organized by the department of **electrical engineering of Om Engineering College, Junagadh**. The department has successfully served **289 students** from the different engineering college of Gujarat. **84 students** among them was selected and got the job in various **21 companies**.

We got the very good response from the participant side as well as company side, after the completion of hard working day, **84 students selected** in different companies & get job through “**ElectOM Job Fair-2015**”.

The Company representatives were also satisfies with the management and the overall activities done at the department and the college under **GTU**.



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## 2. Activity : Workshop on Canvas

Type :Workshop

Date: 19<sup>th</sup> April 2015

Venue: Om Engineering College, Junagadh.

Gujarat Technological University, commonly referred as GTU, is a statewide institution affiliating many esteemed engineering, pharmacy, and management colleges and varsities across the western Indian Districts of Gujarat. GTU established 'GTU Innovation Council' at ACPC Building, LD Engineering College campus. The aim of GTU Innovation council is to facilitate student startups by providing necessary facilities, organizing workshops, helping student to find relevant mentors and other activities weekly. GIC also conducts workshops on Training the professors, Flash Ventures, Social Entrepreneurship Boot-camp, Design Thinking and Ideation workshops. In 3<sup>rd</sup> semester GIC introduce Design Engineering subject to make project more innovative and getting novelty work from his students. In Design Engineering- IB consist of AEIOU frame work, Empathy Mapping Canvas, Ideation Canvas, Product Development Canvas, Learning Need Matrix and Rough Prototype.

When starting of 4<sup>th</sup> semester, first of all our students select his or her domain in that students are like to working. Domains selected by our students are Clean City, College Campus, Farm, Canteen, Class Room, Railway Station, Bus Station, Parking and GIDC etc. They visited domain regularly and note down what are activities done at that place, surrounding environment and Interaction between persons or objects during activity. Consequentially our students fill up AEIOU Frame work successfully.

After completing AEIOU Frame work, we are organizing one day workshop on Design Engineering to complete remaining canvases at our college on 26<sup>th</sup> April, 2015. There were 49(14 Groups) students participated in this workshop very enthusiastically & Prof. C. H. Savaliya have conducted this workshop who have taken training workshop at Gujarat Innovation Council, GTU, Ahmedabad.

### Different Observation done by students of 4<sup>th</sup> Electrical:



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## Empathy Mapping Canvas:

The main purpose of making this canvas is to connect students with domain emotionally. This canvas divided in four parts, User, Stack Holders, Activity and Story Boarding. First, they find out users- who is most utilized person of domain, remaining users are act as stack holders. After that they list out activities of users. Last, they make story two happy and two sad stories corresponding to user. User placed in center of story while remaining characters played by stack holders. With the help of this students are understand domain very well. In other words due to this students connect their empathy with his or her domain.



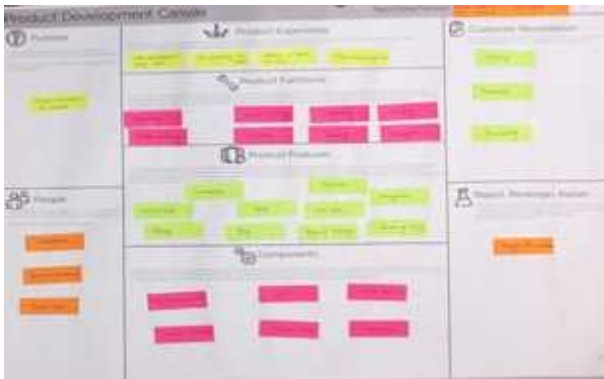
## Ideation Canvas:

With the help of the ideation canvas students get number of ideas to solve problem of domain, to provide better facility and to reduces domain complexity. It is divided in four segments such as (1) People, (2)Activity (3) Situation\context\Location. After completing ideation canvas students makes possible combinations. Suitable and innovative combination become new product.

## Product Development Canvas:

From suitable combination they converted it in to product. They fill up product development canvas for new product. It is divided in eight parts. Such as

- 1) Purpose
- 2) People
- 3) Product Experience
- 4) Product Function
- 5) Product Features
- 6) Component
- 7) Customer Rev4.12cmalidation and
- 8) Reject/Redesign/Retain.



After filling product development canvas students are going to meet their users and explain his or her product to users. User gives some suggestion to students and asking others requirements.

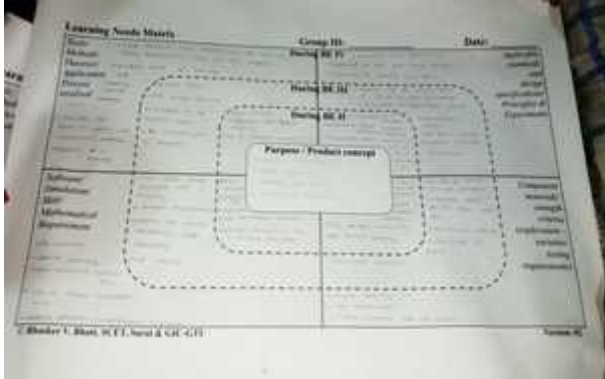
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Students thinking on those ideas and define final product.

## Learning Need Matrix & Rough Prototype:

Once the products define by students, they working towards how it can be completed? They can use learning need matrix- which have four quadrant and three stages. They written all information in LNM, required to learn, to study and to perform etc.



Last, they made their product rough prototype- How product looks.



## Conclusion:

By conducting this workshop, students converted their ideas in to product. These products helpful to society & people.

All the 49 students of 4 th semester Electrical Engineering (Class – B) were benefited and the faculty members of Electrical Engineering department has attended this workshop and get ideas to make product Advanced, Multi- utilized, Flexible and Eco friendly etc.



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## 3. Activity : Workshop on Business Model Canvas

**Type :Workshop**

**Date: 25<sup>th</sup> April 2015**

**Venue: Om Engineering College, Junagadh.**

Gujarat Technological University has initiated first step, to fulfill our Prime Minister (Hon. Narendra Modi) vision “Make in India”. GTU has established Gujarat Innovation Council to start entrepreneurship & encourage new talent in Gujarat. GIC is situated at ACPC building, L.D. Engineering College, Ahmedabad.

This initiative will help to improve the economy of India by increasing the export in other countries. Moreover, GTU is going to start “Incubation Center” in different cities of Gujarat, to encourage the students to do innovation in field of engineering in their leisure.

With regard to above mention context, GTU has introduced different types of canvas in field of engineering as part of their curriculum. In 7<sup>th</sup> semester, students have made Ideation canvas, Product Development canvas & Product Matrix Canvas. In 8<sup>th</sup> semester, GTU has introduced Business Model Canvas.

Motive behind Business Model Canvas is to start entrepreneurship, by developing a product from their final year project. By doing this practice, Students got the idea about how to represent their product in market, how it is different from conventional product, what is the market requirement & resources available in market.

### **Glimpse of Activities during workshop:**



### **Business Model Canvas:**

Business Model Canvas has been introduced to make a good product out of the students final year project to help the society & increase manufacturing industries in India. One can also make a patent from their project.

### **Content of Business Model Canvas:**

- **Key Partners:** In this students can do the partnership with different companies according to their product. By doing this students got the idea about what is market scenario, optimization in product & cost can be achieved, from where they got raw material of their product.
- **Key Activities:** In this students got aware about how will they represent their product to customers. They can use the media, radio, newspapers etc. for marketing of the product.
- **Value Proposition:** In this one can directly come in contact with customer requirement. In

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this they will aware the customer about their product. How it is usable & beneficial over the conventional product and which kind of services they will provide to customers.

- **Key Resources:** In this section student got idea about, from which kind of industries, they will purchase raw material for their product.
- **Customer Relationship:** in this section students got to know about how they will manage the relationship with customer by giving them lucrative services.
- **Customer Segment:** Bifurcate the customer according to their product. To which kind of customer they can sell their product.
- **Channel:** in this students got to know about how they will approach customers. Which media they should select for the marketing of their product.
- **Cost Structure:** they can attract customers towards their product by giving them lucrative offers in cost. In which department, they should have to invest most.
- **Revenue Stream:** in this section students got know about, from where revenue will generate from their product. Price can be negotiable according to customer requirement. How it is beneficial in cost as compare to same product available in market.

## CANVAS MADE BY STUDENTS:



## CONCLUSION:

Business model canvas will be helpful to students to embark entrepreneurship to realize the dream of **“Make in India”**. One can make a good product from their project. Increase manufacturing unit India & enhance the economy of India.

All the 8 th semester students of Electrical Engineering Branch were participated in this workshop and completed the **GTU IDP/UDP** work of Business Model Canvas.

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## Mechanical Department

SR NO.	ACTIVITY INFORMATION
1.	<p><b>Activity : Workshop on Pro-E</b> <b>Type : Workshop</b> <b>Date: 28<sup>th</sup> Feb.,1st Mar 2015</b> <b>Venue: Om Engineering College, Junagadh.</b></p> <p>Department of mechanical engineering from OM Engineering College arranged Two Day (Three sessions) Skill Development Program on ProEngineering software dated 28 February 1 March/2021 March/2324 March2015. Prof. U.D.Vyas and Prof. V.C.Thakar working as Asst. Professor in Mechanical Engineering Department of OM Engineering College rendered their expertise to all workshop participants on ProEngineering software. Approximately 120 students from diploma side were attending the workshop.</p> <p>Seminar was started at 10:00 am with inauguration in which introductory speech given by Dr. H.M.Nimbark and Prof. B.M.Garala. After this session was hand over to Prof. U.D.Vyas and Prof.V.C.Thakar.</p> <div data-bbox="235 913 857 1289"></div> <div data-bbox="886 913 1495 1289"></div> <p><b>Importance of CAD and ProEngineering software:</b></p> <p>Now a days, all the design related works such as drafting, modeling and analysis are executed with the help of various CAD tools like AutoCad, ProEngineering, Solidworks, Ansys etc. Use of CAD tools improve design processes and it is compulsory for the students of mechanical engineering to be familiar with it. Knowledge of CAD tools helps the students in their final semester projects and improves imagination, creativity and chances for placements.</p> <p>ProEngineering is a very well known and widely used CAD software for various design related works (Modeling, Assembly, Analysis etc) for a decade. This software has been developed by Parametric Training Corporation (PTC). This software includes various promising and robust aspects like dynamic dimensioning, hierarchical design, robust meshing, material library and improved graphics.</p>

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## Some of the topics discussed during seminar:

In first session of first day, the students learned about Sketch Module of ProEngineering for creating two dimensional orthographic drawings. In this session, various commands such as Point, Line, Rectangle, Circle, Polygon, Arc, Spline, Fillet, Chamfer, Mirror, Delete segment (Trim), Constraints, creating/editing dimensions, Texting etc have been discussed with appropriate drawings on projector screen.

In second session of first day, the students learned about Part module for creating basic three dimensional drawings. In this session, various commands such as Extrude (material add/remove), Revolve, Hole, Shell, 3D fillet, 3D chamfer, 3D mirror, Rib, Pattern, Draft, Datum Plane.

Datum Axis have been discussed with appropriate drawings on projector screen. During session, twodimensional and threedimensional drawings of various machine components such as Pulley, Bearing, Plate, Cylinder, Sphere have been modeled on ProE and some drawings were given to students for the practice purpose.



In first session of second day, the students learned about advance three dimensional modeling. In this session, various commands such as Helical Sweep (Spring & Thread), Sweep (Profile Extrusion), Blend (Multisection object), Sweep Blend (Multisection Profile Extrusion), Variable section sweep etc.

In second session of second day, the students learned about Assembly module. In this module, students learned about procedure for creating basic assemblies and various placements commands such as Mate, Align, Insert, Fix etc. After creating basic assemblies, students have learned about converting assembly in to mechanism and related commands such as Pin, Slider, Cylindrical, Planner, 6DOF etc. In this session students were also taught about simulation of mechanism and creating animation. At the end of session, a demo of Slider crank and Oldham coupling mechanism was given to the students.


In the last, Prof. B.M.Garala has distributed completion certificates to all of the participants. Students were very enthusiastic and positive about the workshop and many of the students were also interested to undergo a full course of ProEngineering during their vacation.



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## Civil Department

SR NO.	ACTIVITY INFORMATION
1.  <b>Rev</b>  <b>The</b>	<p><b>Activity : An Industrial Visit at Surveying Exhibition</b> <b>Type : Industrial Visit</b> <b>Date: 9<sup>th</sup> March 2015</b> <b>Venue : Revenue Department, Junagadh.</b></p> <p>Revunue Department Junagadh had organized the Exhibition of the Surveying instruments to celebrate the National Survey Day. They organized an exhibition of surveying instruments and its different methods at Ayurvedic College Building, Junagadh.</p> <p>The inauguration function was graced by Mr. Alok Kumar(I.A.S) Hon Collector, Junagadh. Shri. Ajay Prakash(I.A.S) Hon District Development Officer in his chief guest address talked about the various activities undertaken by Institutions of Surveyors and steps taken to resolve the issues of map and other Geospatial data availability in public domain.</p> <p>They taught us about how the different surveying instruments are user used in the field of civil engineering because it is the most important for a surveyor.</p> <p><b>PURPOSE OF THE VISIT:</b> Our main purpose for this visit is to make students familiar with practical environment and to apply their knowledge about the surveying methods and instruments. 4<sup>th</sup> semester subject Advanced Surveying is also required to adopt the knowledge about different surveying methods and instruments, so it is very beneficial to visit all the practical and design data in real time work environment.</p> <p><b>Methods of Traversing:</b> The visit started from the distance measuring instrument like Gunter's chain, or measuring tapes made of steel or invar.</p> <div data-bbox="240 1226 841 1600"></div> <div data-bbox="886 1226 1487 1600"></div>

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The expert gave brief introduction of different measuring instruments and methods of traversing like Plane Table Survey, Theodolite, Total Station, Global Positioning System, etc.

## **Land Measurement Records:**

The land measurement records of ancient times and the advancement made in the record technique were shown. The modifications in geographical map of the Junagadh district were shown as well.



At the end of the visit Mr. Rajesh Gandhi gave the overview of the Modern surveying methods which was very beneficial to the students for their practical approach.

## **CONCLUSION:**

From this visit, we get the information and practical knowledge about different surveying instruments application for land measurements. Students learned clear idea about theoretical and practical measurement parameter. There should be at least one visit arrangement like such an Exhibition and interaction with Industrial experts.

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## College level Activiy

SR NO.	ACTIVITY INFORMATION
1.	<p><b>Activity : Introductory Seminar On ABHAYAM-181</b> <b>Type : Seminar</b> <b>Date: 6<sup>th</sup> April 2015</b> <b>Venue : OM Engineering College,Junagadh.</b></p> <p>To introduce the growing engineering girl students with the step of Gujarat Government towards assurance of women empowerment as a helpline “<b>ABHAYAM – 181</b>”.</p> <p>To guide the girl students of the institute how to use this helpline at any time for the purpose of security and counseling in emergent situations.</p> <p>To provide the proper knowledge how this helpline works using telephonic calls and technology integration.</p> <p>To provide the knowledge of lows in fever of women in situations of domestic or any type of violence.</p> <p>To council the girl students to fight against such violence activities.</p> <p><b>VIDEO SESSION BY PROF. B G BHALANI:</b></p> <div data-bbox="233 877 836 1255"></div> <div data-bbox="889 877 1492 1255"></div> <p><b>Prof. B G Bhalani</b> has express her talk on woman empowerment and share views of <b>Chanda Kochar</b> that a woman has to work for 48 hours as she is managing her home tasks along with outside job. So she shared that women have double workload in compare with Men.</p> <p>She has shown two videos on the ladies who become a role model for any girl like <b>Chanda Kochar, Majumdar, Nita Ambani, Kalpana Chawla</b> etc. She wanted to show that we have reached up to the moon so why do we dream with narrow mind.</p> <p><b>GUEST’S SPEECH</b> given by <b>Ms. Jalpaben Savaliya:</b></p> <p>She said that in 21 st century women have contributed in various disciplines like science, economic, GVK EMRI in association with Government of Gujarat has launched 181 – Abhayam Women Helpline in Gujarat. The helpline has been launched in collaboration with the women and child welfare and home departments.</p> <p>The 24×7 helpline -181- is a toll-free number to support woman in distress and is accessible through any mobile or landline. Any women can access 181 “Abhayam” helpline for the purpose of counseling, guidance, information and also for the rescue in various threatening situations including domestic violence.</p>

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**Dr. H M Nimbark** has given vote of thanks and shared his views on Woman Development and thanked to **Chief Guest Ms. Jalpaben Savaliya** for rendering her expertise among girl students. He has also thanked to **Ms. Taruben, a lady constable along with Police Department of Junagadh** for conducting such innovative introductory seminar at OM Engineering College. He also thanks to **honorable trustees** for remaining present on such seminar and allowing seminar on Introductory Seminar of 181 Helpline No. He also thanks to all girls students of OM Engineering College as well as OM Institute of Engineering & Technology.