

GTU INNOVATION COUNCIL

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Student Startup Support System (S4)	Gujarat Technological University, Ahmedabad	GTU Innovation Council (GIC)

A

Report on

“Project Fair-2017 at Mahavir Swami College of Engineering and Technology”

Date: 3rd April 2017

Time: 09:00 am onwards

Venue: Mahavir Swami College Of Engineering & Technology, Surat.

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PREFACE

Our college has always taken unique initiative for the betterment of students. As per the GTU curriculum final year students have to do their projects under the title of IDP/UDP. Students work on different challenges faced by industries or society, they try to solve that challenges as a part of their project work.

With the blessings and vision of **Dr. S.V. Patil**, support and encouragement of All Head of Department we, at Mahavir Swami College had organized a project fair on **3rd April, 2017**. The project fair has provided platform for the students to display the innovative projects.

We have arranged a project fair of the final year students, as a Part of GTU innovation council program. In which total **98** groups of the students had participated actively and shown their innovative ideas by working model. Project fair gives platform for the students to show their skills so that they can get inspiration and also positive interacts from Industrial expert, internal faculties, HODs and Principal. Student explained their project to their juniors. Total **387** students visited event. Industry Expert visited the fair and devotes their valuable time. Participants give their best to explain their project among all experts.

Program Schedule of Project Fair

Sr. No.	Time	Particular	Venue
1	09:00 AM to 10:00 AM	Welcoming of Industry Experts	Seminar Hall
2	10:00 AM to 12:00 NOON	Evaluation and Display of Projects	Department Project Lab
3	12:00 NOON to 03:30 PM	Result Prize Distribution Ending Ceremony	Seminar Hall

COMPUTER DEPARTMENT

INTRODUCTION

Number of projects: 17

Number of students: 63

In the Computer Department students had prepared their projects on following topics:

1. World Organ Donors
2. Game In Unity
3. Smart Abode
4. Doctor Hub
5. Sensor Bases Air Pollution Elements Measuring With SMS
6. D-Web
7. Expert RTO
8. Secret Nation
9. Foot prints
10. Family Expenses Tracker
11. Speak SMS with Auto Responder
12. My College Chat book(MC2)
13. MOB VIEWER
14. College Notifier
15. WOW(World Of Women)
16. SMART BRTS
17. Emergency Vehicle Location Assistant and Traffic Signal Controller

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We have evaluated our student's project by expert during this exhibition. The following table shows the best three projects from all departments.

TOP THREE PROJECTS

SR.NO.	PROJECT TITLE	STUDENT NAME	GUIDE NAME
1	MOB VIEWER	Patel Happy	Mr. Mitul Patel
2	Foot prints	Patel Anjali	Mr. Bhavesh Nakum
3	Expert RTO	Gohel Anjali	Mr. Rajnik Katariya

EVALUATION COMMITTEE

FROM INSTITUTE:

1. Mr. Rajnik Katariya,
2. Ms. Hardi Desai.
3. HOD: Ms. Bhavika Patel

EXTERNAL:

INDUSTRY:

1. Mr. Jimi Desai (Air link, Surat)

INSTITUTE:

1. Mr. Krunal Patel (BMCET, Surat)
2. Mr. Kavindra Patel (BMCET, surat)

CIVIL DEPARTMENT

INTRODUCTION

Number of projects: 28

Number of students: 122

In the Civil Department students had prepared their projects on following topics:

1. Sustainable Road-Slope Stabilization And Erosion Control
2. Optimize The Cost Of Rcc Building By Using Gfrp Bar With Replacement Of Tmt Bar"
3. A Study On Traffic Problems And Remedial Traffic Operation And Control Measures At Kapodara Intersection On Varachha-Kamarejcoridor, Surat
4. Comparative Study Of Multi Story Steel Building By Change In Column Orientation
5. Comparison Of R.C.C. Flat Slab With Drop And Without Drop By Using Etab Software
6. Design Of Rural Water Supply Network
7. Developement Of Dumas
8. Development Of Bungar Colony, Gothan Village, Surat
9. Development Of Rural Area
10. Development Of Unlined Canal
11. Effect Of Coarse Aggregate Size On Compressive Strength Of Concrete
12. Fiber Reinforced Concrete
13. Improvement In Ready Mixed Concrete Plant And Ready Mixed
14. Concrete Materials
15. Improving Strength In Concrete By Using Steel Slag Waste
16. Increasing The Compressive Strength Of Portland Cement Concrete Using Flat Glass Powder
17. Influence Of Bacillus Pasteurii Bacteria On Plain Cement Concrete With Respect To Strength Parameters

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18. Light Weight Concrete Using Eps
19. Planing And Designing Of Low Cost School Building
20. Recycle Of Construction Waste
21. Repair And Rehabilitation Of Structure
22. Seasonal Variation In Tapti River
23. Smart City-Surat
24. Solid Waste Management In Surat City
25. Strength Of Fiber Reinforced Concrete Containing Waste Glass Powder As Partial Replacement Of Cement
26. Structural Configuration And Optimization Of Multistorey Building By Optimum Position Of Shear Wall Using STAAD PRO.
27. SURAT SOLID WASTE MANAGEMENT
28. Transit Oriented Development Based On Outer Ring Road Of Surat City Covering Landuse Planning
29. Zero Energy Building

We have evaluated our student's project by expert during this exhibition. The following table shows the best three projects from Civil Departments.

TOP THREE PROJECTS

SR.NO.	PROJECT TITLE	STUDENT NAME	GUIDE NAME
1	Transit Oriented Development Based On Outer Ring Road Of Surat City Covering Landuse Planning	Patel Harsh	Mr. Bhavin Zaveri
2	Influence Of Bacillus Pasteurii Bacteria On Plain Cement Concrete With Respect To Strength Parameters	Solanki Kosha	Mr. Mehul Mojidra
3	Development Of Bungar Colony, Gothan Village, Surat	Vekariya Mitul	Mr. Bhavin Zaveri

EVALUTION COMMITTEE

FROM INSTITUTE:

1. Mr. Prakash Devagniya
2. HOD: Assistant Professor Maulik Kakadiya

EXTERNAL:

INSTITUTE

1. Miss. Devangini Sailor (SSIT, Gandhinagar)

ELECTRICAL DEPARTMENT

INTRODUCTION

Number of projects: 17

Number of students: 62

In the Electrical Department students had prepared their projects on following topics:

1. Substation Monitoring And Control Using 8051 & Gsm
2. Power Quality Improvement Using Dvr
3. Static Phase Converter
4. Smart Helmet
5. Implementantion Of Modified Cascaded H-Bridge Multilevel Inverter
6. Cng/Lpg Gas Accident Prevent With Gsm Alert
7. Live Monitoring And Controlling Of Multi Dc Motor
8. Smart Automation System Using Microcontroller
9. Statcom Using Modified Inverter For Reactive Power Compensation
10. Power Factor Controller Using Arduinio
11. Advance Traffic Control System
12. Auto Changeover System Of Induction Motor Through Plc & Scada
13. Industrial Power Supply Parameter Monitoring & Controlling Using Lab
14. Advance Traffic Control System
15. Secured & Maintenance Free Data Transmission Using Plcc
16. High Voltage Distribution And Energy Conservation

We have evaluated our student's project by expert during this exhibition. The following table shows the best three projects from all departments.

TOP THREE PROJECTS

SR.NO.	PROJECT TITLE	STUDENT NAME	GUIDE NAME
1	SMART HELMET	PRAJAPATI KAUTIK	Mr. Vivek Patel
2	IMPLEMENTATION OF MODIFIED CASCADED H-BRIDGE MULTILEVEL INVERTER	JARIWALA PRAKASHCHANDRA	Mr. Vivek Patel
3	STATCOM USING MODIFIED INVERTER FOR REACTIVE POWER COMPENSATION	CHAPADIYA MONTY J.	Mrs. Manisha Patel

EVALUATION COMMITTEE

FROM INSTITUTE:

1. Mr. Jackson Prajapati
2. HOD: Mrs. Manisha Patel

EXTERNAL:

INDUSTRY

1. Mr. Prakash Tanna (Torrent Power)

INSTITUTE

1. Mr. Viral Makwana (BMCET, Surat)
2. Mr. Satish Kedar (BMCET, Surat)

MECHANICAL DEPARTMENT

INTRODUCTION

Number of projects: 19

Number of students: 72

In the Mechanical Department students had prepared their projects on following topics:

1. Shock Absorption Power Generation System
2. 3d Modelling And Analysis Of Connecting Rod And Comparison With Composite Material
By Optimization Technique
3. Experimental Study On Heat Transfer Enhancement Of Double Pipe Heat Exchanger
4. Design And Modification Of Power Generating Speed Breaker
5. Maximum Capability Increase In Drum Winder Machine
6. Design Of Steam Line And Condenser Line Of Process Thermal Power Plant
7. 360 Degree Rotating Pneumatic Jet Trolley
8. Experimental Study on triple concentric pipe heat exchanger
9. Solar Dryers With Phase Change Material
10. Replica of Oil Collector from Sea
11. Wind Power Generation Using Shrouded Wind Turbine For High Power Output
12. Advanced EPS Vehicle (Electrical Pedal Solar)
13. Polygon Turning Machine
14. Study And Modification In Existing CNC Machine
15. Energy Regeneration By Flywheel
16. Automobile A/C System Using Waste Heat From The I.C Engine
17. Provide automation to manual slotting cutter Re-grinding machine
18. Size based object detection and sorting by conveyor belt
19. GDL Production Machine

We have evaluated our student's project by expert during this exhibition. The following table shows the best three projects from all departments.

TOP THREE PROJECTS

SR.NO.	PROJECT TITLE	STUDENT NAME	GUIDE NAME
1	Provide automation to manual slotting cutter Re-grinding machine	Ramani Kushik	Mr. Gopal Jetani
2	Size based object detection and sorting by conveyor belt	Siddhardth Chveli	Mr. Gopal Jetani
3	3d Modelling And Analysis Of Connecting Rod And Comparison With Composite Material By Optimization Technique	Hiren Puvar	Mr. Nilesh Rana

EVALUTION COMMITTEE

FROM INSTITUTE:

1. Mr. Himanshu Prajapati
2. HOD: Mr. Sandip Patel

EXTERNAL:

INSTITUTE

Mr. Jignesh Patel (BMCET, Surat)

Mr. Chetan Panchal (BMCET, Surat)

AUTOMOBILE DEPARTMENT

INTRODUCTION

Number of projects: 17

Number of students: 68

In the Automobile Department students had prepared their projects on following topics:

1. An Electromagnetic Engine
2. An Experiment On IC Engine By Using Calcium Carbide
3. Automatic Hand Brake Release
4. Automatic Pneumatic Bumper With Braking System
5. Compressed Air Engine Using Solenoid Valve
6. Crab Steering System
7. Electronic Assisted Hydraulic Braking System
8. Experimental Study On Diesel Engine Using " Used Cooking Oil".
9. I-Box (Immortal Box)
10. Intelligent Braking System
11. Multi Purpose E-Crafter
12. Performance Analysis Of Diesel Engine Coolant By Using Al₂O₃
13. Power Generation From Speed-Breaker
14. Power Operated Screw Jack In Car
15. Regenerating Electromagnetic Braking System
16. Speed Liquefaction
17. Three Wheel Segway

We have evaluated our student's project by expert during this exhibition. The following table shows the best three projects from all departments.

TOP THREE PROJECTS

SR.NO.	PROJECT TITLE	STUDENT NAME	GUIDE NAME
1	I-Box (Immortal Box)	Patel Pranavkumar Bhikhubhai	Mr. Happy Patel
	Multi Purpose E-Crafter	Patel Falgunkumar Rameshchandra	Mr. Dhruv Solanki
2	Automatic Hand Break Release	Sabhadiya Hardik Rajubhai	Mr. Kanaya Marathe
3	Experimental Study On Diesel Engine Using " Used Cooking Oil".	Jain Vaibhav Sampatlal	Miss Falguni Tandel

EVALUTION COMMITTEE

FROM INSTITUTE:

1. Mr. Dhaval Chaudhri
2. HOD: Mr. Gaurav Tandel

EXTERNAL:

INSTITUTE

1. Mr. Chetan Panchal (BMCET, Surat)

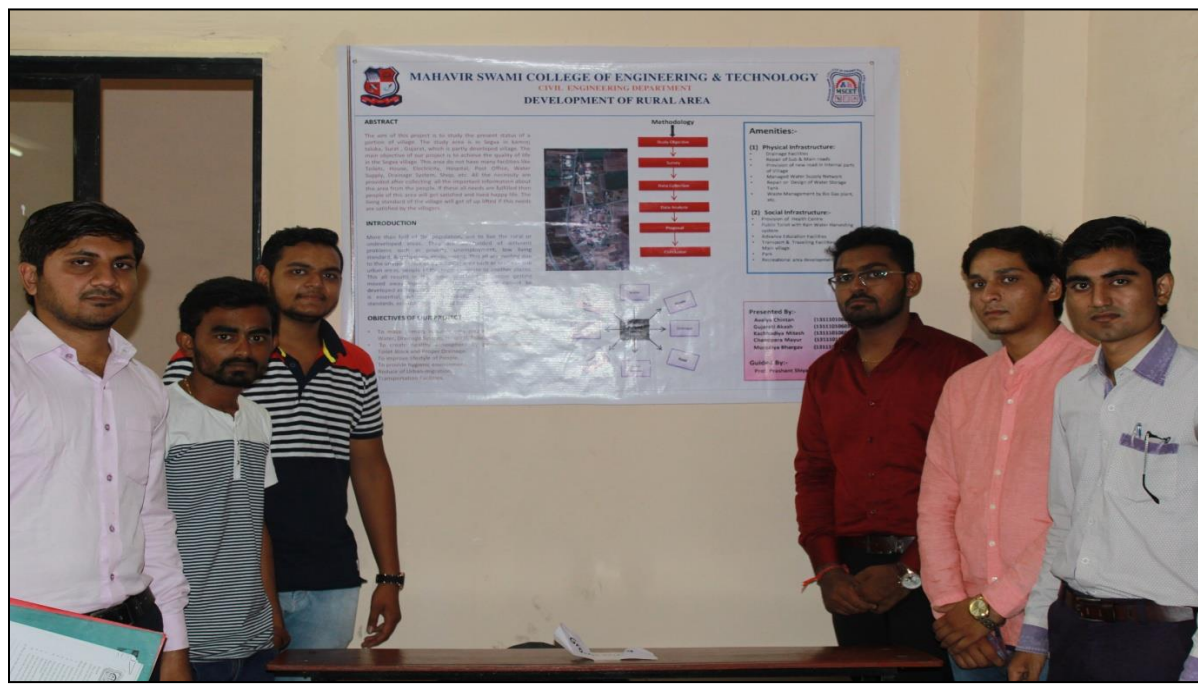
PHOTOGRAPHS OF EVENT





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KEY INSIGHTS

- This kind of fair helps to build confidence of the students.
- Students feel pride that their work is appreciated by others.
- By suggestions from other than their guide will help them for future projects.
- They are getting able to develop their project by good explanation.
- Will help to bring industry ready professional, by bridging the gap between academics and industry.
- Overall from this academic project fair students knew the application implementation of designing in the project.
- They got motivation towards technology for future business.

Report By:

Mahavir Swami College of Engineering & Technology

Report Edited By:

Juned Shaikh

GTU Innovation Council