




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-2015 organized By Sanjaybhai Rajguru College of Diploma
Engineering, Rajkot”**

Date: 15th April 2015

Time: 09:00 am to 17:00 pm

Venue: Sanjaybhai Rajguru College of Diploma Engineering, Rajkot.



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Sanjaybhai Rajguru College of Diploma Engineering Rajkot organized a “Project Fair” as per GTU Innovation Council Guideline on date 15/04/2015 The Project Fair was scheduled between 9:00 AM to 5:00 PM.

The project fair Inaugurated by our respectable trustee Shri Darshneel Rajguru in the presence of Principal Prof.Chirag N.Jasani, Degree Principal Dr. Mitesh Popat.

All Departments’ HODs & GIC Club Members invited the industries and academicians for visiting the fair .The main goal of this project fair was to describe the student’s abilities in front of industries so the gap between academia-industries can be full filled. The project fair was all about innovation or solution of problems in current processes which industries follows in day by day activities.

The projects carried out by final year diploma Students was displayed in project fair. This includes Projects of Mechanical, Electrical, Electronics & Communication, Computer Engineering, Information Technology and Civil Engineering Branches on various impact areas.



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We invited different institutions, parents of students, schools to visit the project fair. Transportation facility was arranged by our institution. We invited Experts from different institution to judge the project and selecting best 3 projects from each department as per GTU Guideline.



Departmental GIC CLUB Coordinators & students were organized the whole projects presentations. All HODs along with industry Members and Experts visited each project of various departments. After reviewing the projects they make evaluation of best 3 projects in presence of HOD and Faculty Coordinators.





Also the nearest village school students were invited to see the projects. We invited HADMATIYA PRATHMIK SHALA, KHORANA PRATHMIK SHALA, BEDI PRATHMIK SHALA, GYANDEEP PRATHMIKSHALA-HADMATIA, DATT PRATHMIK SHALA, SARSWATI PRATHMIK SHALA, and MADHUSUDAN PRATHMIKA SHALA for visiting the project fair. There was about 200 students from schools attended the project fair. The students of schools were very excited to see the projects. They also took good interest and learned many processes practically and gained interest in technical environment.

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We formed a committee for evaluation of final year projects in 3 categories. Internal Senior/Expert Faculty, External Senior/Expert Faculty and an Industrialist. The detailed information about the evaluators of project fair is as given below. All staff was supportive to carry out activities and taken extreme interest to each project to accomplish this project fair.

Details of Internal Evaluators:

Name of Expert/Senior Faculty	Designation	Department	Institution
Prof. Chirag N. Jasani	Principal	Electrical	Sanjaybhai Rajguru College of Diploma Engineering
Prof. J.V. Gajera	Vice-Principal	Electrical	
Prof. Ashok B. Bhuvra	HOD	Mechanical	
Prof. Pradeep Yadav	HOD	Electrical	
Prof. SejalTanna	HOD	Computer	
Prof. Rushiraj Borisagar	HOD	Info. Tech	
Prof. Jecky Patel	HOD	Civil	
Prof. Rajnikant Aghara	HOD	Elect. & Comm.	

Details of External Evaluators:

Name of Expert/Senior Faculty	Designation	Department	Institution
Prof.Kamlesh Sangani	HOD & Asso. Prof	Mechanical	Sanjaybhai Rajguru College Of Engineering
Prof. N. D. Karelia	HOD & Asso. Prof	Electrical	
Prof. Navneet Gediya	HOD & Asso. Prof	Electronics & Comm.	
Anita Parmar	Asst. Prof	Info. Tech.	
Jaydeep Ratanpara	Asst. Prof	Computer	

Details of visited Industrialists:

Name Of Industrialist	Company Name	Area of Work (In the sense of Branch)
Amit Santoki	Kevalam Softwares	IT/CE
G.T. Thaker	SIMMS Engineering	Electrical
Mahesh Bhuvra	AdhyaShakti VMC Pvt. Ltd.	Mechanical
Hasumukhbhai Malaviya	Hi-Tech Security Solutions	EC
Hareshbhai Patel	ICON Industries	EC

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Thus the Project Fair was successfully completed under the precious guidance of our Principal Sir & all HODs. Best 3 Projects from each department was identified by respective panel and given to respective HOD. The project fair was successful to the full fill the criteria of practical implementation and application of technical skills through the knowledge they gained.

The Department wise short listed projects by the evaluation committee are is as listed below:

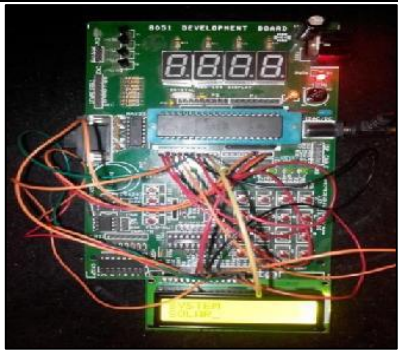
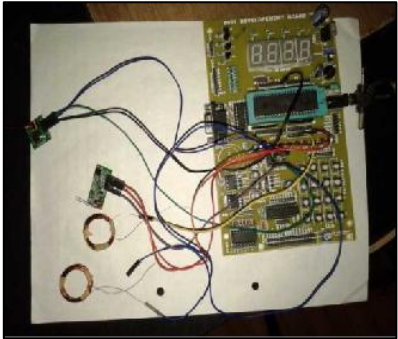
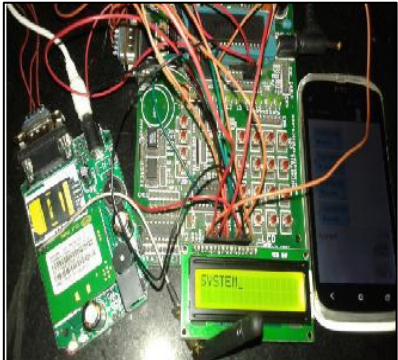
BEST 3 PROJECTS OF ELECTRICAL ENGINEERING DEPARTMENT:

Project Photo	Project Title	Enrollment No	Name of Student
	Automatic System For Heavy Vehicle Prohibition During Time of Peak Hours	126720309009 126720309023 126720309056	Savaliya Jaydeep Panara Kishan Jivani Sagar
	Avoid The Car Accident on U Turn By Laser Based System	136728309003 136728309001 126720309123	Solanki Sanjay Vishavadiya Yogesh Dhaneshwar Yadav
	Farm Watering System	126720309018 126720309042 126720309015	Rathod Ramdevsinh Pandya Kuashal Vyas Pritakumar

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BEST 3 PROJECTS OF ELECTRONICS & COMMUNICATION DEPARTMENT:

Project Photo	Project Title	Enrollment No	Name of Student
	Solar Tracker	126720311019 126720311014	Santoki Mihir A. Viradiya Bhavin
	Wireless- Battery- Charger	126720311028 116720311044	Sohail Sodha Solanki Prakash
	GSM Based Attendance System	126720311003 126720311005	Sakariya Sagar G. Vasoya Harshit

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BEST 3 PROJECTS OF INFO. TECH. DEPARTMENT:

Project Title	Enrollment No.	Student Name
Online Quiz	126720316012 126720316031	Davda Kishan Chandpa Soma
Online Mobile Selling Store	126720316002 126720316006 126720316010 126720316026	Chauhan Maulik Hirani Ghanshyam Vimal Pulikkilan Domadiya Kruti
E-Commerce Web site For Anjali Computer	126720316005 126720316013 126720316022 126720316029	Doshi Nisarg Raychura Harsh Mangukiya Lalji Sarvaiya Paras

BEST 3 PROJECTS OF COMPUTER ENGINEERING DEPARTMENT:

Project Title	Enrollment No.	Student Name
Indian Food Hub	126720307036 126720307046 126720307039	Bodakiya Vishal J. Pansuriya Vivek B. Trivedi Sunny D.
Video Streaming	126720307031 126720307012 126720307009 126720307005	Ramanuj Jigneshbhai Jobanputra Raj B. Kadivar Parvez A. Ghelani Viraj R.
SI Tracking	126720307001 126720307013 126720307010	Vasoya Jainisha Khambhayta Shilpa Sinojiya Radhika

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BEST 3 PROJECTS OF MECHANICAL ENGINEERING DEPARTMENT:

Project Title	Enrollment No.	Student Name
Agricultural Spray Pump	126720319030 126720319037 126720319041 126720319043	Ajani Milan K. Piprotar Ronak B. Vachhani Raj V. Boda Darshan M.
Hand Operating Simple Drill Machine Use For Radial Drill and Bending Machine	126720319051 126720319067 126720319068	Zala Arjunsinh V. Paramar Ravi D. Vala Bhargav H.
Solar Sterling Engine	126720319004 126720319011 126720319022	Ravat Akshay P. Sojitra Kaushik R. Vadaliya Darshit C.

BEST 3 PROJECTS OF CIVIL ENGINEERING DEPARTMENT:

Project Title	Enrollment No.	Student Name
Fiber Reinforced Concrete	126720303045 126720303051 126720303058 126720303059	Vegad Krunal B . Chauhan Rohit R. Gajera Hardik C. Jadeja Harshyamsinh J.
Village Improvement of Hadmatiya	126720303002 126720303003 126720303007 126720303025	Radiya Dhaval D. Bharwad Jagdish T. Joshi Keyur J. Ginoya Hardik M.
Acid Resistant Bricks From Waste Of Ceramic	126720306011 126720306013 126720306038 126720306033	Radiya Dhaval D. Bharwad Jagdish T. Joshi Keyur J. Ginoya Hardik M.

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List of Projects Displayed in Project Fair:

Sr No.	Project Title	Branch
1	ONLINE MOBILE STORE & ACCESSORIES	INFORMATION TECHNOLOGY
2	ONLINE QUIZ	
3	E-COMMERCE WEBSITE OF ANJALI COMPUTERS	
4	ONLINE HOSTEL MANAGEMENT	
5	ONLINE HARDWARE PRICE DETAIL	
6	VIRTUAL E-CLASSROOM	
7	ONLINE AIR BOOKING	
8	ONLINE TILES MARKETING	
9	ONLINE TOURISM	
10	BAKERY MANAGEMENT SYSTEM	COMPUTER ENGINEERING
11	HARDWARE MANAGEMENT	
12	MALL MANAGEMENT SYSTEM	
13	MANUFACTURING PROCESS OF DOOR HANDEL	
14	SMART INVOICE	
15	HARI OM FOOD SERVICE	
16	TAILOR MEASUREMENT	
17	INDIAN FOOD HUB	
18	GSM BASED ATTADENCE SYSTEM	ELECTRONICS & COMMUNICATION
19	GSM BASED MOTOR ON/OFF	
20	THEFT ALARM	
21	GSM BASED MACHINE MONITORING SYSTEM	
22	RFID BASED SECURITY SYSTEM	
23	AUTOMATIC CAR PARKING	
24	AUTOMATIC SOLAR TRACKING SYSTEM	
25	AUTOMATIC PACKING MACHINE	
26	AUTOMATIC ROOM LIGHT CONTROLLER WITH VISITOR COUNTER	
27	WIRELESS DOTMATRIX DISPLAY BOARD	
28	WIRELESS POWER TRANSMISSION	
29	MICROCONTROLLER BASED DIGITAL CODE LOCK	
30	DIGITAL VOLTMETER USING 8051 MICROCONTROLLER	
31	AUTOMATIC PACKING MACHINE	
32	AUTOMATIC ROOM LIGHT CONTROLLER WITH VISITOR COUNTER	

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33	AGRICULTURAL SPARY PUMP	MECHANICAL ENGINEERING
34	HAND OPERATING SIMPLE DRILL MACHINE USE FOR RADIAL DRILL AND BENDING MACHINE	
35	PEDDLE OPERATED FLOUR MILL	
36	SOLAR STIRLING ENGINE	
37	RING BAR BENDING MACHINE	
38	HYDRAULIC FLOOR CRANE	
39	SOLAR POWER TRICYCLE	
40	PEDAL OPERATED MIXER, GRINDER AND JUICER	
41	DESIGN AND DEVELOPMENT OF MOLD DIE FOR INVESTMENT CASTING THROUGH CAD SOFTWARE	
42	PNEUMATIC JACK MODEL	
43	SOLAR OPERATED SPRAY PUMP	
44	CASTING DEFECTS IN SAND CASTING	
45	RFT (RIGHT FIRST TIME) IMPROVEMENT IN MAHINDRA (MDI-3200) CONNECTING ROD	
46	MOTOR OPERATED COMBINED WOODEN CUTTER AND GRINDING OPERATION MACHINE	
47	FOOT OPERATED HYDRAULIC LIFT	
48	PNEUMATIC SHEET CUTTER	
49	CHAINLESS CYCLE OPERATED BY GEAR SHAFT DRIVE	
50	PEDAL POWERED WASHING MACHINE	
51	REMEDIES FOR BOILER LOSSES IN THERMAL POWER PLANT	
52	FORGING DEFECTS AND THEIR SOLUTIONS	
53	MULTI-WHEEL NUT REMOVER AND TIGHTER	
54	SOLAR WOOD CUTTER	
55	FOUR WAY HACKSAW MACHINE	
56	SEMI-AUTOMATIC WINDING MACHINE	

Projects of students from Electrical Department was tremendous .Our Electrical Department's Students and Faculties developed 25 working model of each project. Each project was having an application to society or to industry in the sense of innovation. Prof. C.N. Jasani(Principal),Prof. J.V. Gajera(Vice Principal), Prof. P.S. Yadav(HOD ELE) Congratulated Staff members and Students for their extra ordinary work.

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Sr No.	Project Title	Branch	
57	AUTOMOVING SOLAR PANEL	ELECTRICAL ENGINEERING	
58	A MODEL OF DIFFERENT TYPES OF EARTHING		
59	GAS DETECTOR		
60	AUTOMATIC MAGNETIC SEPERATOR SPEED CONTROL		
61	AUTOMATIC VOLTAGE STABILIZER WITH INDUCTOR		
62	AUTOMATIC STAR-DELTA STARTER		
63	FARM WATERING SYSTEM		
64	LDR BASE POWER SAVER STREET LIGHT		
65	AUTOMATIC TEPERATURE CONTROL OF TRANSFORMER USING FAN		
66	GENERATE AND SELLING ELECTRICAL POWER USING SOLAR SYSTEM		
67	SPEED CONTROL OF ELEVATOR		
68	MOBILE CONTROL ELECTRICAL HOME APPLIANCES		
69	MODEL OF ELECTRIC TRAIN		
70	AUTOMATIC GARBAGE REMOVING SYSTEM		
71	SOLAR ROPEWAY		
72	AUTOMATIC MUSICAL DOOR BELL		
73	ELECTRICAL CAR JACK		
74	AUTOMATIC WINDOW CONTROL SYSTEM		
75	WORKING MODEL OF MAGLEV TRAIN.		
76	AUTOMATIC ROOM LIGHT CONTROL WITH VISITER COUNTER		
77	AUTOMATIC CAR PARKING ROD CONTROL SYSTEM		
78	AUTOMATIC RAIN SENSING WIPER		
79	ELECTROMAGNETIC CRANE		
80	POWER GENERATION BY EXERCISE BICYCLE AND ITS UTILIZATION FOR DIFFERNT PERPOSE		
81	WORKING MODEL OF STEAM POWER PLANT		
82	WORKING MODEL OF 66KV/11KV SUB-STATION		
83	AVOID THE CAR ACCIDENT ON U TURN BY LASER SYSTEM		
84	AUTOMATIC CLEANING SOLAR PLATE		
85	VILLAGE IMPROVEMENT OF HADMATIYA		
86	SOLID WASTE MANAGEMENT		
87	VILLAGE SEWER PLANNING		
88	ACID RESISTANT BRICKS FROM THE WASTE OF CERAMIC		

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89	PROBLEM AND SOLUTION IN PLASTERING	CIVIL ENGINEERING
90	ARTIFICIAL GROUNDWATER RECHARGE	
91	FIBER REINFORCED CONCRETE	
92	CONSTRUCTION BY PRECAST WALL	
93	LOW COST CONCRETE	
94	WASTE MATERIAL RECYCLE & RE USE	

This event was carried out successfully by following team mate's efforts, Prof. C.N.Jasani (Principal), Prof. J.V. Gajera (Vice Principal), All HODs, Prof. Jignesh Kachheti (TPO), Prof. Bhavesh Chandrala (Electrical), Prof. V.K.Chavda (Electrical), Prof. Milan Virani (Mechanical), Prof. Hetal Savaliya (Civil), Prof. Hiten Vadhiya (EC), Prof. Deepa Mundia (CE). The Report was Prepared by Prof. Mit H. Dave (GIC-Club Coordinator-SRCODE).

Feedbacks From Experts / Industrialists / Visitors

Prof. C.N.Jasani (Principal-SRCODE):-

Diploma Students developed projects of degree level which is very appreciating. Our Main Aim is to train students practically on behalf of this objective we have successfully conducted this project fair.

Dr. Mitesh Popat (Principal-SRCOE):-

This event should be regularly done and should be included as a part of academic activity because student will face many difficulties and will learn practically about the problems. The projects are extremely effective.

Prof. J. V. Gajera (Vice-Principal-SRCODE):-

A very good team effort was executed. The students along with the guidance of faculties has made magic in practical implementation of the projects.

Prof. Kamlesh Sangani (Asso. Prof./HOD-Mech/SRCOE):-

"Project Fair" created the new platform to display the task of the students in front of industries which will be helpful to change the view of the industrialists for students because, it provides the environment as "Display the work before demanding the work".

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Prof. Nirav D. Karelia(Asso. Prof./HOD-ELE/SRCOE):-

Project Fair is a good initiative taken by GIC because it encourages students to be helpful to society and industry by making innovation.

Prof. Navneet Gediya(Asso. Prof/HOD-EC/SRCOE):-

Overall development of students can be forced by such kind of activity as students will interact with industry and know the current trends.

Bhagyesh Mehta(Visitor):-

Students have done a good job, especially recycling; energy saving all these point of view represented by students which are very helpful in day by day life.

Jaykishan Raval(Visitor):-

I found new ideas to use the current technologies in a new way such that they are economically feasible and can helpful to normal people also.

Darshneel Rajguru(Trustee-SREZ):-

Our main focus is on practical development of student in such a way that they can be helpful to nation, industries and society from where they belong.

Report By:

Sanjaybhai Rajguru College of Diploma Engineering

Report Edited By:

Juned Shaikh (GTU Innovation Council)