

GTU INNOVATION COUNCIL



UDISHA CLUB

Campus Activity Report of July– 2014

(Om Engineering College, Junagadh)



Mr. R.J.Padariya

UDISHA Club Co-ordinator,
OM Engineering college, Junagadh

Dr. H.M. Nimbark

Director/Principal,
OM Engineering college, Junagadh
Co-chair, Junagadh Sankul.

Computer Department

| SR. NO | ACTIVITY INFORMATION |
|-----------|---|
| 1 | <p>Activity : Spoken Tutorial Workshop on LATEX Organized Under OSTC Type : Workshop Date: 7th July, 2014 Venue: Computer Lab at OM Engineering College, Junagadh.</p> <p>OM Engineering College has established Open Source Technologies Club (OSTC) for providing as well as utilizing benefits of latest free and open source technologies under guideline of Gujarat Technological University.</p> <p>OM Engineering College also initiates “open source movement” to establish fully open source environment in college. As a part of movement Computer Engineering Department of OM Engineering College prepare a calendar of FOSS workshop.</p> <p>OM Engineering College, Junagadh, Gujarat has organized Workshop on “Latex” for 5th and 7th semester students of computer engineering. The workshop was conducted with the help of IIT Bombay Spoken Tutorial Team.</p> <p>More than 50 student participants have participated in this workshop enthusiastically. Some key points were discussed in workshop are:-</p> <ul style="list-style-type: none"> ➤ What is Latex ➤ Use of Latex in document processing and publishing ➤ Setup environment of latex and package installation ➤ Different predefined document class ➤ Letter writing, Report writing, Article writing ➤ Mathematical Equation ➤ Table, Image and related packages ➤ Bibliography & References <p><i>Some Glimpse of the Workshops:</i></p> <div style="display: flex; justify-content: space-around;">   </div> |

Special thanks to GTU, IITB Spoken tutorial team, **Prof. Himanshu Gajera (HOD-Comp)** and faculty members of computer department for their kind support during the workshop.

Website: <https://sites.google.com/a/omeducation.edu.in/oec-ostc/>

2 Activity :Seminar On ERP TECHNOLOGY

Type : Seminar

Date: 15th July, 2014

Venue: Seminar Hall at OM Engineering College, Junagadh.

On 15th JULY, Seminar on “ERP TECHNOLOGY” was organized and conducted by DATA SOFT CE-IT SOLUTION Company, Ahmadabad for students of C.E. 6th sem. Degree and 5th sem. diploma CE/IT/EC students. Agenda behind this seminar was to aware students about technical knowledge that is required by industries so that students can get clear vision about placement criteria and what industry really expect from fresher’s and CE/IT Engineers and selection of pre-final year students for training in final semester in which they were given live projects to work on.

There is a huge gap between the fresh engineering graduate skills and the skills demanded by corporate; DATA SOFT is taking its first step towards bridging this “SKILL GAP” with forward thinking approach.

Schedule of DATA SOFT was:

Seminar: 1.30 hour

Technical Test: 1 hour (Paper Format: A, B, C, and D from APTITUDE TEST ONLY)

Interview: selected students based on the marks of GOING FOR PRACTICAL TEST AT COMPANY PLACE

Campus drive starts with EXAM:



3 From Diploma CE/IT/EC total 60 students and Degree CE total 40 students appeared in technical test.

After technical test, within an hour, result was displayed as 19 students from degree and 28 students from diploma had cleared test and eligible for PRACTICAL TEST.

Agenda: Introducing with ...

- *What is work & projects and Why it is all about working live?*
- *Being innovator, Being students*
 - **What students really look forward for?**
 - Innovative Definition of Project.
 - High Language

Different or best from others.

- **As per my view it should be**

Project must finish

There should be project which useful to third party.

Project from where you can earn name, marks or money

➤ ***Cycle that I love : SDLC***

- **During Programming**

Programming Standards like Naming Convention

Folder Structures

Comments of Coding

- **Other Technology and During Testing**

JavaScript and Query

Animation using CSS as per needs

Multi Browser Testing with Layout and Working function

Multi Resolution and OS

- **On User side**

User Friendly

Reliable

Attractive as per Application

➤ ***Technology***

- **Programming Language & Platform**

ASP.NET – MS SQL

JAVA – MySQL

PHP – MySQL

C/C++ - Data File

Open Source or Framework

CGI-Perl OR Delphi – MySQL

➤ ***Importance Of Database***

Data and Information

Size of Database

Speed of Database i.e.. Google, Facebook

Value of Data i.e. LIC, ICICI Bank

Operations

Collect -> Modified -> View -> Remove

Major Database Server: MSSQL, Oracle, Sybase

➤ ***Projection***

Deployment of Project is most important part of IT.

Server Configuration

FTP and Hosting

Real Data Entry of Master Table

Training and User Understanding

Mark as completion of Phase or Project

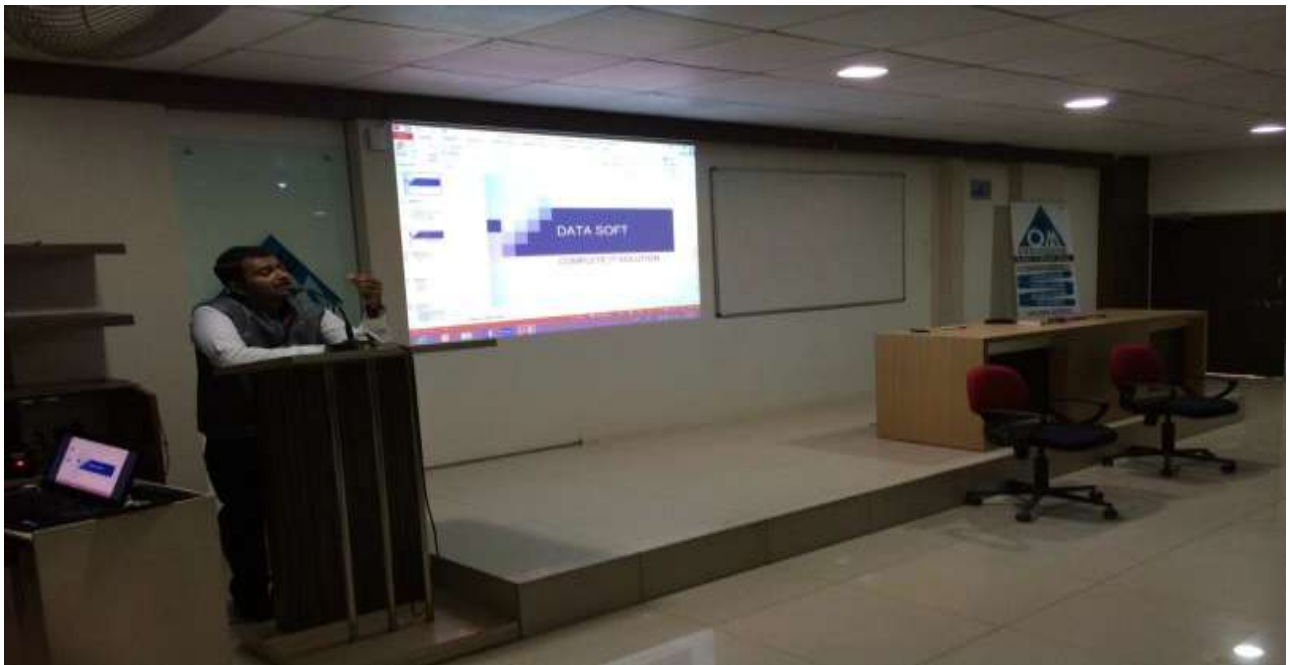
➤ ***Think as Executive, work as owner***

Time Management

Output
Customer Satisfaction
Work Satisfaction
Social Life
Progressive Thinking
Work Excellence

➤ ***Four Pillars Of Future Market***
Cloud Computing
Mobility
Big Data
Security

➤ ***Ask Your Self***
Integrator
Seller
Inventor
Deployer



Beginning of the session:

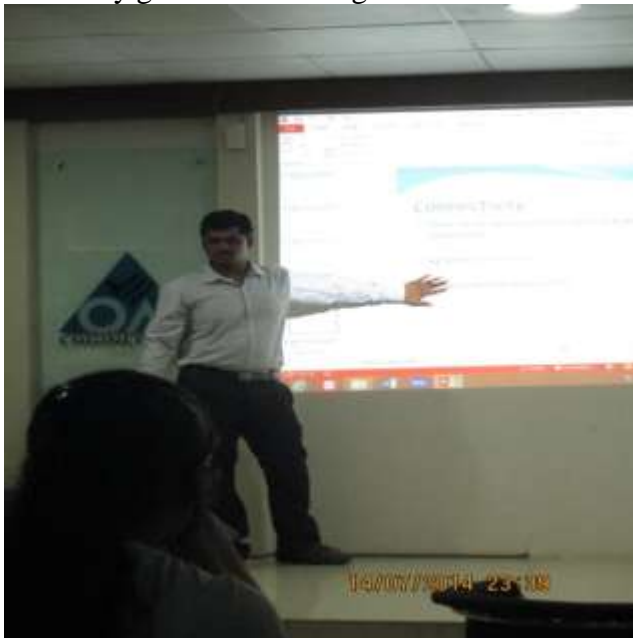
DATA Team has flashed on company,
DATA SOFT is a company which uses a combination of various Teaching Methods AND Developing in Java, ASP.NET, PHP, Android, IOS Application, and SAP as Projects, Expert Lectures, Seminars, Workshops, Presentation by Students and interaction with eminent personalities of the industry as well as government.



Founder of DATA SOFT has told about various aspects of developing projects and also required skills.

He has told students to raise questions about what and whichever topics they studies in their college curriculum.

Start searching answer of that questions that are in your mind then after take help of faculty so in those way good self learning skills would be developed.



Student shared what they want to do in their life, he asked some questions regarding their idea. Students asked for solution and he gave some useful advice to them.




After that the team visited the campus. They were glad on seeing the campus. They really appreciated the work done by the students and advised to make them commercial. They blessed with all the good wishes to the students and all others who were the part of the seminar.

Selected Students for PRACTICAL TEST:

| BRANCH | NAME |
|--------|--------------------|
| CE | CHAVDA DHARA |
| CE | RUPARALIYA GUNVANT |
| CE | GAJERA KETAL |
| CE | PARMAR ANJANA |
| CE | BHALODIA YAGNIK |
| CE | KORADIYA RAVI |
| CE | VASAVANI CHIRAG |
| CE | GAJERA ANIT |
| CE | SHINGALAA KRISHNA |
| CE | PARMAR KAJAL |
| CE | RAKHOLIYA NIRALI |
| CE | VAGHELA PRATISHA |
| CE | GOHEL DHAVAL |
| CE | TUSHAR GANATRA |
| CE | KATHIRIYA SANJAY |
| CE | PADALIYA SACHIN |
| CE | JATAPARA CHIRAG |
| CE | PATEL KIRAG |
| CE | BHATT AKASH |

Prof. Himanshu Gajera, Mr. Mohit Dave, Hetal Dadhaniya, and TPO has express his thanks toward the guest **DATA SOFT CE-IT SOLUTION TEAM** to give his valuable time and guidance, he ask CE student to follow Team instructions in future. The session was ended with the great enthusiasm of students toward the placement. Some of students were **selected by DATA SOFT**

Mechanical Department

| SR. NO | ACTIVITY INFORMATION |
|-----------|---|
| 1 | <p>Activity : A Pedagogy Report On “Experimental Investigation on Different Injection Pressure and Injector Holes number in Stationary 4-Stroke Single Cylinder Diesel Engine Performance Using Neem Oil-Diesel Blend</p> <p>Type : Workshop</p> <p>Date: 5th July 2014</p> <p>Venue :At Seminar hall,Om Engineering College,Junagadh.</p> <p>Introduction of Pedagogy Session: Department of mechanical engineering, Engineering College arranged Pedagogy session on “Experimental Investigation on Different Injection Pressure and Injector Holes Number in Stationary 4-Stroke Single Cylinder Diesel Engine Performance Using Neem Oil-Diesel Blends” dated 5th July 2014. The Pedagogy session is based on use of alternative fuel in diesel engine. Approximately 24 staff members of mechanical department were attending the pedagogy session in degree seminar hall.</p>  <p>Seminar was started at 12:30 pm with normal introductory speech by Prof. B M Garala and session was hand over to speaker Assist Prof. Ravi Gujarati as per the knowledge about automobile and he is willingly interested to awareness regarding bio-diesel fuel as alternative fuel in diesel engine for better future in fuel sector.</p> |



Some of the topics discussed during seminar:

Introduction

In present days, under the scarcity of conventional fuel Bio diesel oil is the best option instead of diesel fuel. There are various factors that influence the performance of engine as bio diesel oil with diesel fuel in diesel engine such as compression ratio, atomization of fuel, fuel injection pressure, and quality of fuel, combustion rate, air fuel ratio, intake temperature and pressure etc. Fuel injection pressure and nozzle holes number play an important role in better atomization of injected fuel allows for a more complete burn when we used bio diesel oil blends as fuel. In present work a single cylinder 10HP diesel engine with minor changes like injection pressure and nozzle holes number used to investigate the

Performance characteristics of bio diesel oil with diesel blends. These performance parameters have measured jointly work on different injection pressures like original pressure 220 bars and 240 bars and different nozzles holes number as 3, 4 and 5 holes. From experiment we found result that under 220 bars original injection pressure ,B10 blend fuel with 4 holes nozzle gives maximum brake power and minimum brake specific fuel consumption and maximum brake thermal efficiency, indicated thermal efficiency and mechanical efficiency. B10 fuel is given 7.15 ± 0.29 kW brake power, $39.49 \pm 1.63\%$ brake thermal efficiency and 0.21 ± 7.54 kg/kWh brake specific fuel consumption, 81.82% indicated thermal efficiency and 52.31% mechanical efficiency for 4 holes nozzle. For 240 bars injection pressure, 3 holes nozzle with B20 blend gives good performance. 3 holes nozzle with B20 blend fuel gives 7.15 kW, 43.54%, 0.20 kg/kWh, 71.91% and 62.93% for brake power, brake thermal efficiency and brake specific fuel consumption, indicated thermal efficiency and mechanical efficiency respectively.

Experimental set up and procedure:

The "TOPLAND GROUP OF COMPANIES" situated at Gujarat industrial estate Rajkot engaged with manufacturing & marketing activities for more than three decades, is today a leading manufacturer of Agricultural & Industrial products like all types of pump sets and diesel engines and company provides such a good research and development environment. The experimental work will be performed at shop floor of **TOPLAND PVT. LTD., Rajkot.**

Types of Nozzles for Experiment



3 holes nozzle



4 holes nozzle



5 holes nozzle



Injector nozzle



pressure tester gauge



Diesel test rig

Result And Discussion

We discussed about different injection pressure like original 220 bars and 240 bars with 3, 4, and 5 holes nozzles regarding Neem oil fuel blends to measure performance of engine about below topics:

- Brake Thermal Efficiency

- Brake specific Fuel Consumption
- Brake Specific Energy Consumption
- Indicated Thermal Efficiency
- Mechanical Efficiency

Conclusion

Finally concluded from the above both the tables that which injection pressure and which injection nozzle holes number give better performance in single cylinder 4 stroke diesel engine as Neem oil blend with diesel fuel which is given below,

- Brake Specific Fuel Consumption (BSFC) is excellent at 240 bars injection pressure and 4 holes nozzle. The value is 0.20 kg/kWh.(B10)
- Brake Specific Energy Consumption (BSEC) is excellent at 240 bars injection pressure and 3 holes nozzle. The value is 8.31 MJ/kWh.(B20)
- Brake Thermal Efficiency (BTE) is excellent at 240 bars injection pressure and 3 holes nozzle. The value is 43.34%.(B20)
- Indicated Thermal efficiency (ITE) is excellent at 220 bars original injection pressure and 4 holes nozzle. The value is 81.82%.(B20)
- Mechanical Efficiency (ME) is excellent at 240 bars injection pressure and 4 holes nozzle. The value is 68.36%.(B20)

Valedictory Function:



After the completion of last presentation, **Prof.A.G.Makati** has offered a letter of thanks as a token of appreciation to **Assist.Prof. R.D.Gujarati** and addressed the session with vote for thanks.

Upshot:

Its matter of privilege and milestone for Om Engineering College that such a wonderful Pedagogy Session on “**Experimental Investigation on Different Injection Pressure and Injector Holes Number in Stationary 4-Stroke Single Cylinder Diesel Engine Performance Using Neem Oil-Diesel Blends**” was delivered by **Assist.Prof. Ravi Gujarati**. Approximate **24 Staff members** from degree in mechanical department attended with willingness. Attendees were remained present in whole Pedagogy session. After completion the session curiously raised the question from listener side.

2 Activity : Training & Placement Report Of Mechanical Engineering Department**Type : Placement Drive****Date: 15th July 2014****Venue :At Om Engineering College,Junagadh.**

Department of mechanical engineering is enthusiastically performing training and placement activities very nicely under guidance of Principal and head of department Sir

As a part of activity some of our students were placed in few companies in the month of July 2014.

List of companies and students are as follows.

Placement companies

- Friends group of companies :- Mainly deals with CNC machine tool manufacturing where our following students were selected as a trainee engineer
 - Vadaliya bhavesh
 - Dave Anil
 - Mansur j. Naiya
- Creative castings Ltd. :- Mainly deals with investment casting where our following student was selected as production engineer
 - Bapodara kashyap
- Tribhuvan spintex pvt ltd :- Mainly deals with cotton yarn spinning where our following student was selected as a junior engineer
Boda Jayesh
- Repute polymer:- Mainly deals with plastic polymerization and products where our following student was selected as a supervisor and maintenance engineer
 - Dodiya Ajay
- Bright Industries:- Mainly deals with manufacturing of different engineering and automobile components where our following student was selected as a CNC engineer and supervisor.
 - Chavda Mehul

As a part of activity some of our students were took industrial training in different companies and found some problems on which student will work out for their projects up to 8th semester.

List of companies and students are as follows:

Training companies

| Student name | Company name | Place |
|-------------------|-----------------------|-------------|
| Bhatt Krupal D | steel cast Ltd. | bhavanagar |
| Mavani Bhavik | fluid logic pvt ltd | ahmedabad |
| Patel Karan | IDMC Ltd. | vidhyanagar |
| kakadiya avadhesh | Falcon pumps pvt ltd | rajkot |
| kheni pratik | Falcon pumps pvt ltd | rajkot |
| shingala ashish | Falcon pumps pvt ltd | rajkot |
| jadav vivek | piramal glass pvt ltd | bharuch |

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| | | |
|--------------------|---------------------------------------|-------------|
| parmar raviraj | gujarat state ele corp ltd. | sikka |
| aamir sorathiya | castech foundaries pvt ltd | junagadh |
| savaliya rahul | jyoti cnc automation pvt ltd | rajkot |
| bhadja hiten | jyoti cnc automation pvt ltd | rajkot |
| upadhyay dipesh | IDMC Ltd | vidhyanagar |
| bhavesv vadaliya | friends group of companies | rajkot |
| makavana dhaval | friends group of companies | rajkot |
| harsh chudasama | excel industries Ltd. | bhavanagar |
| rishit nainuji | mahindra gears Transmissions pvt ltd. | rajkot |
| mayur lakhani | mahindra gears Transmissions pvt ltd | rajkot |
| bapodra kahyap | mahindra gears Transmissions pvt ltd | rajkot |
| patel rahul | amocia mg tech works pvt. Ltd | baroda |
| punit makadiya | austin engg company ltd | junagadh |
| joshi ravi | austin engg company ltd | junagadh |
| sachin chotaliya | austin engg company ltd | junagadh |
| abhani sagar | austin engg company ltd | junagadh |
| parmar mayur | mahindra gears Transmissions pvt ltd | rajkot |
| Shingala Ashish | Falcon pumps Pvt. Ltd. | rajkot |
| Kakadiya Avdhesh | Falcon pumps Pvt. Ltd. | rajkot |
| Kheni Pratik | Falcon pumps Pvt. Ltd. | rajkot |
| Jadav Vivek | Piramal Glass Pvt. Ltd. | rajkot |
| Bapodara Kashyap | Adani power limited. | Mundra |
| Sufiyan Dhupelwala | O.N.G.C. Ltd | vadodara |
| Harsh Nagpure | Windsor machines ltd | Gandhinagar |
| mishra ashish | prashant gwk. | ahmedabad |
| Talib Shaikh | Windsor machines ltd | Gandhinagar |
| Bhavin Shiyani | Windsor machines ltd | Gandhinagar |
| Boda jayesh | tribhuvan spintex pvt ltd | rajkot |
| visroliya mehul | tribhuvan spintex pvt ltd | rajkot |
| makawana dhaval | tribhuvan spintex pvt ltd | rajkot |

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| | | |
|----------------------|-------------------------------------|------------|
| limbashiya yogesh | tribhuvan spintex pvt ltd | rajkot |
| ashish gorecha | tribhuvan spintex pvt ltd | rajkot |
| nitish joshi | tribhuvan spintex pvt ltd | rajkot |
| zala rohit | castech castings pvt ltd | junagadh |
| anad sangani | tribhuvan spintex pvt ltd | rajkot |
| bhatti naeem | synnova gears transmissions pvt ltd | rajkot |
| vohra amit | synnova gears transmissions pvt ltd | rajkot |
| dama pankaj | synnova gears transmissions pvt ltd | rajkot |
| paras ramani | mckast industries | ahmedabad |
| ketan vaddoriya | mckast industries | ahmedabad |
| sarvaiya krushnadev | excel industry ltd | bhavanagar |
| sangani anand | castech castings pvt ltd | junagadh |
| domadiya chnadradi | castech castings pvt ltd | junagadh |
| detroja gaurav | jyoti cnc automation pvt ltd | rajkot |
| dave anil | friends group of companies | rajkot |
| nikunj kakadiya | creative casting ltd | junagadh |
| paghdal rajni | creative casting ltd | junagadh |
| vaghasiya jaydip | creative casting ltd | junagadh |
| ramani paras | mckasti industries | ahmedabad |
| kapil mathukiya | creative casting ltd | junagadh |
| karangiya kamlesh | creative casting ltd | junagadh |
| dholariya balkrushan | alidhra machine pvt ltd | surat |
| zala himmatsinh | sidhhi cement | sutrapada |
| makawana smita | tribhuvan spintex pvt ltd | rajkot |
| joshi nitish | tribhuvan spintex pvt ltd | rajkot |
| Limbachiya dhruv | Simens ltd | vadodara |
| dodiya ajay | repute polymer pvt ltd. | rajkot |

With best efforts of **Prof. Vishal thakar** as a **departmental TPO** and **college TPO** student are getting maximum benefit.

Electrical Department

| SR. NO | ACTIVITY INFORMATION |
|-----------|--|
| 1 | <p>Activity : Industrial Visit at Synergy Transformer Pvt. Ltd. Type : Industrial Visit Date: 23rd July 2014 Venue : Synergy Transformer Pvt. Ltd., Keshod.</p> <p>We are gladly & thankful to Director as well as Principal, Dr. H. M. Nimbark and Head of the Departments Prof. M. M. Baraiya and our faculties who give us a great guidance regarding training and instruct us the importance of training in electrical field. So we decided to take visit in Synergy Transformer Pvt. Ltd., Keshod.</p> <p>We are especially thankful to respected chief engineer, Synergy Transformer Pvt. Ltd, Keshod because he granted us permission for taking visit in his company and give the proper guidance to students and allow to visit his company for the practical based approach learning to students.</p> <p>Since its inception in 2004, Synergy transformer is growing continuously in Indian transformer industry without making any compromise on international quality standards. Our assorted range of transformers is widely accepted across various industrial sectors by domestic and international clients as well. Our experts have completed several successful projects for developed countries all around the world.</p> <p>As leading Transformers manufactures in India, they have outstanding power of developing power transformers, low loss transformers, efficient transformers, electrical transformers and furnace transformers as per customer specifications. We also offer customized solutions to our clients according to their industry demand.</p> <p>Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge of transformer.</p>  |

Also in 5th semester subject Element of Electrical Design and Electrical Machine-II require to knowledge about transformer design and different testing, so it is very much convenience to see all the practical and design data in real time work environment.

At the beginning, with industrial expert gives introduction about the manufacturing material with real design parameter. By this information students get real practical knowledge for design of transformer which would be studied in 5th semester.



Some key points were discussed in visit:

- The type of materials to be used for minimum core loss of transformer.
- Where we use buchholz relay.
- Different types of testing in transformers.

In this visit students learn and see the design, material to be used for transformer and differing testing..

At the end we visit the work shop, at which all the part of transformer is being ready for inner construction of transformer.

From this visit, we get the information and practical knowledge about design and testing of transformer. Students got very clear idea about theoretical and practical design parameter. Some test should be performing for getting real practical data of Transformer with general discussion with experts in the industry. About 31 students were benefited. We also visit the workshop at which all the basic part should be prepared and mostly observe the buchholz relay arrangement.

2 **Activity : Workshop on Patent Search & Analysis Report**

Type : Workshop

Date: 9th July 2014

Venue : OM Engineering College, Junagadh

We are gladly & thankful to **Director** as well as **Principal, Dr. H. M. Nimbark sir** and All Head of the Departments (OEC) for constant support for “**PSAR**”. We are especially thankful to Gujarat Technological University (GTU) for arranging this type of FDP which is very useful for innovative project work as well as development of student & faculty.

OM Engineering College has set up seminar on „Patent Search & Analysis Report” for innovative project work under guideline of Gujarat Technological University. More than 20 faculties have participated in this workshop enthusiastically. Some key points were discussed in awareness event on “**Patent Search & Analysis Report (PSAR)**”:-

What is **PSAR**?

- Importance of PSAR?
- How to search Patent?
- How to analyze patent?
- How to generate the report?



Prof. D.A.Divrania gives the seminar on PSAR and its importance
*Faculties in **Patent Search & Analysis Report (PSAR)** workshop.*

3 Activity : Industrial Visit at Electro Robotech, Rajkot.

Type : Industrial Visit

Date: 11th July 2014

Venue : Industrial Visit at Electro Robotech, Rajkot.

We are gladly & thankful to **Director** as well as **Principal, Dr. H. M. Nimbark sir** and **Head of the Departments Prof. M. M. Baraiya** and our faculties who give us a great guidance regarding training and instruct us the importance of training in electrical field. So we decided to take visit in **Electro Robotech, Rajkot** which is basically works on the Industrial defined projects as well as User defined projects with automation systems.

We are especially thankful to respected chief engineer, **Mr. Alpesh Patel, Electro Robotech, Rajkot** because he granted us permission for taking visit in his company. We are also thankful for giving free training of PLC/SCADA to our final year students.

Electro Groups of company situated at Rajkot in the field of Automation Embedded and Electrification has been incorporated on August, 2000.

Our main purpose for this visit is familiar with industrial environment and to get practical knowledge and learn where & how we apply our theoretical knowledge in real application. We could also get knowledge about the final year projects based on Industries.



Industrial expert has started seminar with importance of PLC & SCADA in automation system and given good knowledge about that.

Some key points were discussed in seminar

- What is requirement of Automation
- As a Electrical Engineer why we required to learn it
- What are the future scope in Automation industries



In this seminar students learn basic function of PLC & SCADA and also we learn its importance as well as industrial applications with Automation System. After the completion of seminar we are going to company visit, in visit we learn the Automation system with PLC/SCADA.

From this visit, we get the information about the PLC & SCADA and its working. We also learn practical implementation of PLC & SCADA in industrial application & also its requirement in industry. About 24 students were benefited. We also get information about the different types of PLC kit manufacturing companies like ABB, AB & delta etc.

4 Activity : MOU With Atul Motors Pvt.Ltd. Amreli

Type : MOU

Date: 13th July 2014

Venue : Atul Motors Pvt.Ltd. Amreli

Atul Group Of Industries Rajkot- Jamnagar's Part Of **Atul Motors** Amreli. The Leading Shelling Of **4 Wheeler' S Show Room**. **Mr.Haresh Bhai Chandra** Managing **Director** And His Son **Mr. Samarth Chandra** Is **C.E.O.** Of **Atul Motors Amreli**. Branch Manager Working Now **Mr. Harshad B. Chamadiya** Atul Motors Have **7 Show Room** In Saurashtra **1. Rajkot 2. Amreli 3. Porbander 4. Vakaner 5. Rajula 6. Dhari 7.Jamnager.**

Amreli Atul Motors Pvt Ltd Is One Of The Part Of This 7 Show Room.

Its Sheeling **Maruti Suzuki** New Car And Also Work Shop Work For **Maruti Suzuki**.

Atul motors amreli every year many vacancy create to new show room. Many engineering branch applying to various post.

Mechanical engineering degree/dipoma also applies to work **shop manager** and **assistant manager**, true value department manager.

Information technology and / computer engineer degree/diploma also work in server **operator** and **computer operator**.

After successful ,Great moment came of signing **MOU** by **Mr.M.M.Makwana**.



5 Activity : MOU With HITECH TRANSPower PVT LTD

Type : MOU

Date: 18th July 2014

Venue : HITECH TRANSPower PVT LTD

Hi Tech Transpower Was Originally Founded By Two Enthusiastic And Visionary Partners Mr.Paresh Ardesana And Mr.Ramesh Gami On 15 th April 2005 At Rajkot (Gujarat , India).The Incorporation Was In The Form Of Partnership Firm but, from 29th july,2010.it is converted into private limited company named hi tech transpower private limited.

Services

- Fabrication
- Testing & commissioning
- Operation and maintenance
- 60 nos. 66 kv substation (GETCO)under contract

PLACEMENT OF 2014 PASSES OUT DIPLOMA ELECTRICAL STUDENTS

| | |
|---------------------------------|-----------------------------|
| VAGHASIYA MAYURKUMAR MANSUKHLAL | DIPLOMA ELECTRICAL ENGINEER |
| DUDHIYA MOHIT SURESHKUMAR | DIPLOMA ELECTRICAL ENGINEER |
| GEDIYA SAGAR BHARATBHAI | DIPLOMA ELECTRICAL ENGINEER |
| SUKHADIYA RAVI ARVINDBHAI | DIPLOMA ELECTRICAL ENGINEER |
| AVIRKUMAR G MULIYA | DIPLOMA ELECTRICAL ENGINEER |
| SAKARIYA MOHIT RASIKLAL | DIPLOMA ELECTRICAL ENGINEER |
| TILWANI PUNIT LAXMAN | DIPLOMA ELECTRICAL ENGINEER |
| KADACHHA KANDHAL RANMALBHAI | DIPLOMA ELECTRICAL ENGINEER |
| VIROJA BHAVIKKUMAR DILIPKUMAR | DIPLOMA ELECTRICAL ENGINEER |



Sat-Sun training

11 kv v.c.b. maintenance and reading taken by final year students.



Circuit breker and isolator circuit bay



Transformer Construction And 11 Kv V.C.B. Breaker Maintenance Work.
66 Kv Relay Panel And Relay Wiring And Transformer Tap Changer.
11 Kv V.C.B. Vacuum Bottle Mechanism And 11 Kv Indoor Panel Construction.



After successful training period, and placement drive, by seeing the great technical skills of our students hitech transpower has agreed to sign MOU with OM engineering college, Junagadh.
After successful ,Great moment came of signing MOU by Mr.M.M.Makwana.

6 Activity : MOU With Jay Janta M.S.M. LTD. (Construction)

Type : MOU

Date: 5th July 2014

Venue : Jay Janta M.S.M. LTD.

Jay construction is work building and road construction its located at keshod, dr.ambedkar road , dist-junagadh mr. m.n.makwana is now managing direttore of this compancy since last 30 years. many civil engineers work doing in this company about civil work.



After successful,Great moment came of signing MOU by **Mr.M.M.Makwana.**



7 **Activity : Industrial Visit Thermal Power Station, Sikka**

Type : Industrial Visit

Date: 23rd July 2014

Venue : Thermal Power Station, Sikka

We are gladly & thankful to Director as well as **Principal, Dr. H. M. Nimbark** and Head of the Department **Prof. M. M. Baraiya** and our faculties who give us a great guidance regarding training and instruct us the importance of training in electrical field. So we decided to take visit in TPS (Thermal Power Station) situated at Sikka(Jamnagar, Gujarat, India).

We are especially thankful to respected chief engineer of Thermal **Power Station (Sikka)** because he granted us permission for taking visit in his company.



Our main purpose for this visit is familiar with industrial environment and to get practical knowledge and learn where & how we apply our theoretical knowledge in real application. We could also get knowledge about the final year projects based on Industries.

In this visit we learn mainly three measure part of power plant

- Generation Process
- Transmission Process
- Control Process

➤ **Generation Process:-**

They start with Generation Process in power plant

Some key points were discussed in Generation department,

- What is Generation Process?
- As a Electrical Engineer what are the prime duties in this department
- Which types of equipment are used in generation process & its functions?

➤ **Transmission Process:-**

Some key points were discussed in Transmission department means switchyard.

- What is Transmission System?

- How it is Work?
- Which types of equipment are used in transmission process & its functions?

➤ **Control Process:-**

In control process we use SCADA system for making the plant Automatic & we control plant as well as observe & calibrate the plant & its equipments.

Some key points were discussed in Control Room

- What is the function of control Room?
- How it is work?
- What is the important of Automatic Control plant



From this visit, students get the information about the electricity generation process. We also learn practical implementation of subjective knowledge in industrial application & also its requirement in industry. About 32 students of 5th semester were benefited. We also get information about the different types of equipment knowledge like boiler, FD, ID Control room function etc.

8 Activity : MOU With Synergy Transformer Ltd.

Type : MOU

Date: 5th July 2014

Venue : Synergy Transformer Ltd.

Since its inception in 2004, Synergy transformer is growing continuously in Indian transformer industry without making any compromise on international quality standards. Our assorted range of transformers is widely accepted across various industrial sectors by domestic and international clients as well. Our experts have completed several successful projects for developed countries all around the world. As leading Transformers manufactures in India, we have outstanding power of developing power transformers, low loss transformers, efficient transformers, electrical transformers and furnace transformers as per customer specifications. We also offer customized solutions to our clients according to their industry demand. We the prominent leading transformers manufacturers in India are well employed with latest tools and technologies best industry outcomes. We are continuously striving to improve our skills and quality standards to come at the top in Indian transformer industry. We are well recognized by various industry sectors in India and worldwide for excellent product deliverables and after sales services plus technical support.

Synergy Products

Distribution Transformer

Furnace Transformer

Power Transformer

Step Up Transformers

Low Loss Transformers

Efficient Transformers

Synergy Transformers is leading certified and quality transformer manufacturers in India for any industrial applications and electrical Mr. Rajesh Patel managing director of synergy transformer agatray-keshod road , Keshod.

Synergy Transformer has given training to more than 19 Students Of Final Year And Also Give Visit **For 5th Sem. 68 Students** on date 23/7/2014 and 30/7/2014



After successful training period, by seeing the great technical skills of our students Synergy Transformers has agreed to sign **MOU** with **Om Engineering College, Junagadh** with efforts of **Mr. M. M. Makwana**.



College Level Activity

| SR. NO | ACTIVITY INFORMATION |
|-----------|--|
| 1 | <p>Activity : Orientation Program Type : Orientation Program Date: 28th July 2014 Venue: At Seminar Hall at OM Engineering College,Junagadh.</p> <p>We are gladly & thankful to all pillars, guardian, trustees and specially Honorable shree Jaydipbhai Vaghela, Director as well as Principal, Dr. H. M. Nimbark sir and Head of the Departments Prof. A G Makati and faculties who gave us a great efforts regarding welcoming, escorting and instructing us the importance of new comers 1st Year Students.</p> <p>We are also thankful to Pareshbhai Bhut, Head Research & Development Creative Casting as well as Manishbhai Trivedi Head QC (quality control) Creative Casting for being Guest of Honor at First year Engineering Orientation Program.</p>  <p>Sharp at 10:30am in the morning, Orientation program has been started. Prof. Sunil Der has initiated the program with the introducing the Institute from past to present achievements.</p> <p>The concept of Om Engineering College has been initiated through a thought during their Engineering Studies. And a moral thought has set up an Engineering College as Om Engineering College in the year of 2009. The Institutions have achieved innumerable milestones, achievements and awards like ranking in impressive result in GTU to Zone level, highest satisfaction of students, Vyom, Abhyontom, Prakirtom, Manifest and festival celebration like Navratrom.</p> <p>It has also achieved 2nd Rank all over in Gujarat and 1st in the Examination of Boston Services,</p> |

iTEP(International Teaching English Proficiency). Organized RPT seminar though ISRO scientist And arranged sessions for students as well. There are lot many achievements the Institutions stands at the pinnacle.



As Indian tradition, orientation program began with **lamp lighting** by Dias Members. The **sloka of DEEP JYOTI...** has speeded the spiritual fragrance in the Seminar hall. The program move forwards to prayer of Goddess Saraswati.



Pareshbhai Bhut and Manishbhai Trivedi spared his valuable time for 1st year orientation program at Om Engineering College and blessed students with his vast knowledge of Industries. He has shared his ten years of experience with Industries. He has focused on the need of Industry and Skills require to be built in the students from the beginning for 1st year engineering students.

He has also concentrate on the attitude of Engineering Students towards their goal and difference when they achieved it. Basic skills of Industry can be learnt during the Industry training period and it will be more beneficiary for their career development.

Parents Expectation:

Parents of Amirkhan has participated in the open discussion for fulfilling the need of students and Honorable trustee Jaydipbhai Vaghela has also promised them that now it is our duty to fulfill the dream of making their son as successful Engineer. A parent of Ms. Sarvaiya has also requested to make her daughter, a well-known and successful engineer.

Students Expectations:

Ms. Sarvaiya has also shared her goal to get more fame than his brother, Brijraj Sarvaiya, Students of 7th Civil Engineering. She has also shared to create something novel for society which society needs.

Moreover students have also participated in the discussion with Principal and shared his career goals. At the end of the discussion, Principal Dr. H. M. Nimbark sir has gave their sarisfactory answers and congratulates for their career in the field of Engineering.

After the Orientation Program, respective faculties have led them towards their YOGA classroom. Om Engineering College has hired a trained YOGA trainer and asked students to provide special sessions. GTU has focused on the fitness of first year students. Ms. Birva Gohel has conducted some sessions given below:



Ms. Birva Gohel, a certified trainer of YOGA has explained basic objectives and importance of State Cadet Corps (SCC).

- To create a Human Resource of organized, trained and motivated youth
- To Develop, Character, Comradeship, Discipline, Leadership, Secular Outlook, Spirit of

- Adventure and Ideals of Selflessness Service amongst the youth of the Gujarat State.
- To provide Leadership in all walks of life and be always available for the Service of the

There are more than 150 students along with their parents have participated in the orientation program and shared their expectations towards the Industrial experts, Trustees as well as Director of the Om Engineering College.

At the result, the dias members have thanked to all students of 1st year for being members of OM PARIVAR at Om Engineering College.