

**GTU INNOVATION COUNCIL**

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Date: 10-4-2015

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## **UDISHA CLUB**

### **Campus Activity Report of March- 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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## Computer Department

SR NO.	ACTIVITY INFORMATION
1.	<p><b>Activity : Skill Development Program On Joomla</b> <b>Type : Workshop</b> <b>Date: 30<sup>th</sup> ,31<sup>st</sup> March 2015</b> <b>Venue: Om Engineering College, Junagadh</b></p> <p>OM Engineering College, Junagadh also believes in skill development for student's better future and gain practical knowledge about their field. For that OM Engineering collage organized skill development program on recent technologies of various fields for diploma students. As a part of this skill development program department of computer engineering also organized skill development program on “<b>Open source CMS Joomla</b>”.</p> <p><b>Inaugural Session:</b> Skill development program is opened by inaugural session. <b>Prof. H.B. Ramani</b> has given introduction speech to students about concept of skill development program. Then after <b>Prof. B.M. Garala</b> handled the rest of session. He explained about need of skill development in engineering and how this program will be helpful in their carrier. He also gave information about how OM Engineering college helps student for their skill development.</p>  <p><b>1<sup>st</sup> Day Training Session:</b> After completion of inaugural session students placed in correspondent laboratory for their training session. 1 St day training session on joomla has been started with introduction of joomla and two days schedule for this program.</p> <p><b>About Joomla:</b> Joomla is a free, open source content management system.</p> <p><b>Joomla Course:</b></p>

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Joomla introduction was given by **Prof. M.D. Gundaliya**.

Following course content was delivered in 1 st day training session.

- Introduction: A New and Easy Way to Build Websites
- Installation: Getting Joomla Up and Running
- Web Building Basics: Creating a Site in an Hour
- Small Sites, Big Sites: Organizing your Content Effectively
- Creating Killer Content
- Helping Your Visitors Find What They Want: Managing Menus



Students performed each training contents live on web server by making their own website using CMS tool joomla. Students developed websites relate with their interest and their diploma final year project and they have feel that how their final year project can be more effective in terms of GUI design and functionalities.

## **2<sup>nd</sup> Day Training Session:**

On 2 nd day training session remaining course contents have been delivered to students:

- Opening Up the Site: Enabling Users to Log In and Contribute
- Getting the Most our of Your Site: Extending Joomla
- Creating an Attractive Design: Working with Templates
- Attracting Search Engine Traffic: SEO Tips and Techniques
- Keeping the Site Secure

## **Awarding Certificate and feedback session:**

After completion of 2<sup>nd</sup> day of training program,We have reach at ending session of this Skill Development Program. In Ending Session,Each Students who were attend both days of this program have been awarded by **“Training Completion Certificate”**. We collected Feedback Using Feedback Form from the students about our performance and review on the importance & help fullness of this training Program.

We would like that every students gave very positive feedback.

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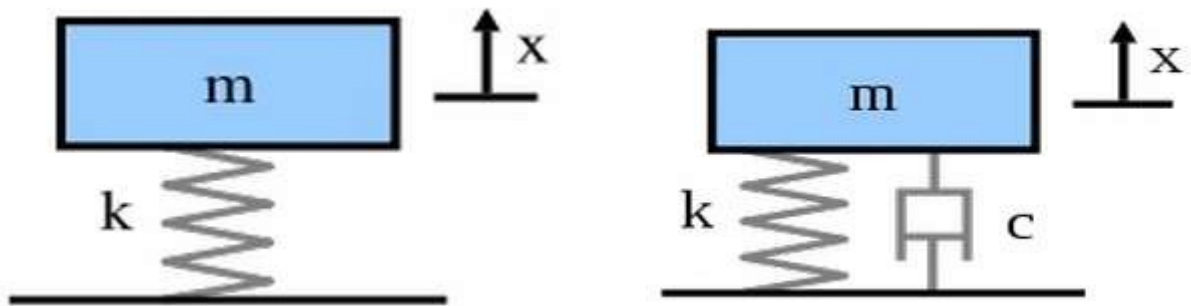
## Mechanical Department

SR NO.	ACTIVITY INFORMATION
1.	<p><b>Activity : An Expert talk on Vibrations under the subject of Dynamics Of Machinery</b> <b>Type : Expert talk</b> <b>Date: 21<sup>st</sup> March 2015</b> <b>Venue : Om Engineering College,Junagadh</b></p> <p>We very much thankful to Trustee as well as <b>Director/Principal OM Engineering College Dr. H M Nimbark sir</b> for organizing such effective expert talk for beneficiary of students.</p> <p>We are indeed thankful to <b>Associate professor, L D Engineering College, Ahmadabad Prof. M Y Patil</b> who spared his precious time especially for Students of Om Engineering College and conducted expert talk on Vibrations.</p> <p>We are thankful to <b>Prof. B M Garala, Head of the department of Mechanical Engineering</b> who have remained present during expert talk.</p> <p>We are also thanking to also attendees faculties from department for engaged themselves for continuing progress evaluation in their teaching and fulfilling students needs.</p> <p>We are also thankful to students who are create the interest and remain present during expert talk and make it successful.</p> <p>Department of mechanical engineering from OM Engineering College arranged One Day expert talk on Vibration under the subject of 6<sup>th</sup> semester mechanical engineer<b>dynamics of machine</b>, dated 21 st March 2015. <b>Prof. M. Y. Patil</b> working as <b>Associate Professor in L D Engineering College</b>, having more then 15 of teaching experience rendered his expertise in many subjects like <b>vibration of mechanical system, CAD, FEA , CAM etc.</b> Approximately 75 students from our degree 6<sup>th</sup> semester mechanical student attended the expert talk.</p> <div data-bbox="233 1245 857 1619"></div> <div data-bbox="883 1245 1484 1619"></div> <p>Talk was started at 9:00 am with normal introductory speech by prof. B M Garala and session was hand over to speaker Prof. M. Y. Patil is well known in educationalists since 15 years and he is willingly in association with so many institutions for delivering his expertise technical knowledge to the students.</p>

Some of the topics discussed during expert talk:

Basic knowledge of vibration and it's types --

- Vibration is a mechanical phenomenon whereby oscillations occur about an equilibrium point. The oscillations may be periodic such as the motion of a pendulum or random such as the movement of a tire on a gravel road.
- Vibration is occasionally "desirable". For example, the motion of a tuning fork, all musical instruments, vibrating screens, shakers and conveyors or mobile phones or the cone of a loudspeaker and doorbell is desirable vibration, necessary for the correct functioning of the various devices.



- Undamped free vibrations
- Damped free vibrations
- Forced Damped Vibrations
- Forced Vibration with Rotating like air compressor, pumps etc
- Forced Vibration with Reciprocating like I C engines etc
- Vibration Measuring Instruments like vibrometers, accelerometers and seismometer.

**Upshots:**

After completion of talk student can clear view on vibration and learn practical example to control vibration in mechanical systems. Also students highly motivated by Prof. M Y Patil and insist him to conduct 3 day seminar on Vibration which shows the success of expert talk.

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## Civil Department

SR NO.	ACTIVITY INFORMATION												
1.	<p><b>Activity : Workshop on “A BUILDING PLANNING IN AutoCAD ”</b> <b>Type : Workshop</b> <b>Date: 28<sup>th</sup> February &amp; 1<sup>st</sup> March 2015</b> <b>Venue : Om Engineering College</b></p> <p>Om engineering college, department of civil engineering had organized the two days workshop for developing the skill in <b>AutoCAD building designing</b>. <b>Dr. H. M. Nimbark, the principal of Om engineering college</b> guided the students about the importance of some technical skills in various fields. <b>Prof. H. H. Gajera, the Head Of Department of Civil Engineering</b> guided the students about the usefulness of civil engineering software; that are helpful in buuilding designing. <b>Prof. K. P. Barad, the faculty of Civil Engineering Department</b>, has conducted the two days sessions and taught the 2D building drawing in AutoCAD. <b>List of Participants:</b></p> <table border="1"><thead><tr><th>No.</th><th>Name</th></tr></thead><tbody><tr><td>1.</td><td>Government polytechnic, junagadh</td></tr><tr><td>2.</td><td>Amrut institute, junagadh</td></tr><tr><td>3.</td><td>Om institute, junagadh</td></tr><tr><td>4.</td><td>Government polytechnic, porbandar</td></tr><tr><td>5.</td><td>Dr. J. N. Mehta Government polytechnic, Amreli</td></tr></tbody></table> <p>Our main purpose for organizing this workshop is to get knowledge about How to develop the skill in Building designing in AutoCAD. As such the AutoCAD is beneficial to Create Building Design, Factory Design, Plan Design, etc. At the beginning, Ms. K. P. Barad gave introduction about the How to develop the skills for better building designing in AutoCAD. Then, Ms. K. P. Barad gave carrier orientive guidance, where on can develop their own CAD portfolio, for engineers they can design civil structure. In the session of first day, the basic commands such as Screen Layout, Create a New Drawing, Open a Drawing, Save a Drawing, Units, Line, Circle, Arc, Ellipse, Polygon, Rectangle, Offset, Trim, Extend, Chamfer, Fillet, Copy and Move, Object Snap were taught. After the basic commands the students were made to draw a line plan of a building.</p>	No.	Name	1.	Government polytechnic, junagadh	2.	Amrut institute, junagadh	3.	Om institute, junagadh	4.	Government polytechnic, porbandar	5.	Dr. J. N. Mehta Government polytechnic, Amreli
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In the next day the basic commands such as, dimension menu, Line type, Text, Text style, Hatch, Gradient, Dimensions, Break at point and joint, Mirror, Array, Layer, Block, Leader, etc. were taught, and at last a simple building plan of residential building was made to be drawn.



## **Conclusion:**

From this workshop, we get the information and knowledge about the use of AutoCAD software for building designing in the field of civil engineering.

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## 2. Activity : “Contour survey” at Hadmatiya

Type : Industry Visit

Date: 2<sup>nd</sup> April 2015

Venue : Hadmatiya

Om Engineering College, 4<sup>th</sup> semester civil engineering students has organized a visit for **contour survey** under the guideline of faculty members **Ms. K. P. Barad** and **Mr J. S. Makadiya** at Hadmatiya.



All the students and staff members of Om engineering college reached at Hadmatiya with all the surveying instrument such as theodolights , staffs ,tripods etc. in early morning sharp at 8:00 am.

**Ms. K. P. Barad**, explained the importance, cotour survey application and all procedure of contour survey that services are offered with the help of contour lines which are the virtual lines drawn on the surface that represents a particular elevation.



Then the all the students were divided into four groups at different four stations. Students who have a good observing theodolight skill takes reading at all four stations.

The other students were made to stand at different station with the staff at fixed regular interval. By the staff reading horizontal location and elevation of ground points to provide enough data for plotting when the map is prepared.

All the students took reading by the theodolight for Computing distances, angles, volumes and elevations of earthwork of their station.

A contour line is a line that connects points of equal elevation. Topographic survey is usually



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carried out in order to have an accurate record of the existing conditions of a portion of land that is about to undergo some type of construction activity.

All the students were taking rest after taking all the reading data and packing up the survey instrument at the end of the survey project at 3:00 pm.

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## College level Activiy

SR NO.	ACTIVITY INFORMATION
1.	<p><b>Activity : Celebrating World Meteorological Day</b> <b>Type : Celebration</b> <b>Date: 23<sup>rd</sup> March 2015</b> <b>Venue : OM Engineering College,Junagadh.</b></p> <p><b>Prof. H M Maru, subject in-charge of Environmental Studies,</b> have inaugurated the celebration by short speech on the definition of meteorology and current need to pay attention on meteorology. He said that meteorology means study of atmosphere which celebrated by <b>US Governments</b> from The Future we want. The call for Climate Action is coming from all around the world from the Third Small Islands Developing States meeting in Samoa to the hundreds of thousands marchers participating in 2646 rallies in 162 countries two days before UN Climate Summit.</p> <div data-bbox="230 743 831 1121"></div> <div data-bbox="886 743 1497 1121"></div> <p>In March 2015, a new blueprint for action on disaster risk reduction, replacing the first Hyogo Framework for Action (HFA), will be adopted in Sendai, Japan, at the Third UN World Conference on Disaster Risk Reduction. In December, theUnited NationsFramework Convention for Climate Change (UNFCCC) aims to achieve a new universal agreement on climate. Its Green Climate Fund (GCF) will support projects, programmes, policies and other activities in developing countries toward adaptation and mitigation to counter climate change.</p> <div data-bbox="230 1360 831 1793"></div> <div data-bbox="886 1360 1497 1793"></div>

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Faculty of Humanities & Science, **Asst. Prof. Sunil Der** has given vote of thanks for delivering his expert speech to **Prof. H M Maru** and raised the curiosity as well as attention towards the importance of Atmosphere into students. He also thanked to **Trustees, Director/Principal Dr. H M Nimabrak Sir, HOD Prof. A G Makati** and students attendees for their positive support and presence during the celebrating the World Materialogical Day.

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## 2. Activity : Expert Skype Talk on Contributor Personality Development Program

Type : Expert Talk

Date: 5<sup>th</sup> March 2015

Venue : OM Engineering College, Junagadh.

Our expert **Asst. Prof. Akash Thakkar** teaches to **UG & PG** students of **BITS Engineering College Vadodara** as **Asst. Prof. in H & S Department** and rendering his services as Visiting Faculty in Diploma Studies **M S University** for last five years. Who himself is author of book named Contributor Personality Development and pursuing his **Ph.D** from **Gujarat Technological University**.

His areas of interest are English Language Teaching, Translations, researching on new horizons of ELT and Engineering Studies.

### Purpose of Expert Talk:

- It will improve their subjective deep knowledge.
- It will aware them with referential knowledge which boost them for learning.
- Through this talk, student's curiosity of learning will be improved.
- It is organized to equip students with not only right skills but also the right mindsets.

### Objectives of Contributor Personality Development:

- The Combination of effectiveness with human values is crystallized in the concept of "contributor ship".
- It enables the students to develop the right approach towards their peers, seniors, industry and their own future, which helps them more responsible and capable of sharing their own lives.
- Engineering Students should not only be excellently trained in the technical field, they should acquire soft skills if they are to be successful.
- There is great need to equip students with not only the right skill-sets but also the right mindsets.
- Students who adopt and develop the right mindsets early in their professional career are able to bring about positive and sustainable change in their overall personality.
- Any program of this sort must, in order to be effective, be inspired and guided by high ideals and principles /practices flowing from the ideal.

Prof. Akash Thakkar shared his expertise on the CPD subject. He began with the introduction of Subject and meaning of each acrobat CPD. HE said that contribution shared our qualities and expertise in form of Engineering Skills along with life skill which left life long memories in students' career.

**Contributor:** It teaches to inculcate the life values towards professional life as well as personal life which uplift the students' moral values to make them good citizen who will contribute to build the nation's pride.

**Personality:** He also said that nicely dressed up outer appearance is only one quarter of personality. The rest three quarters are Manners, Etiquettes, and Knowledge and communication skills.

**Development:** Students upliftment is current need of today's engineering students. It inspired and guided by high ideals and principles /practices flowing from the ideal.

He shared that once Our Former Chief Minister of Gujarat and current Prime Minister of India Shri

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Narendra Modi was giving his speech in presence of Vice Chancellor of Gujarat Technological University, he said that our engineering students are good at learning on percentages but fails while the Industrial Interviews just due to professional skills. And Vice Chancellor of Gujarat Technological University Dr. Akshay Agarwal sir has decided to add one subject in the Engineering Curriculum and named as SVCPP Swami Vivekanand Personality Development Program which was abbreviated as CPD Contributed Personality Program.



## **Real Life Exemplification & Practical activities:**

Department of Humanities & Science have remained present while the expert talk and get benefited with expert's knowledge.

He gave real life examples to identify the difference between contributor and non-contributor. He asked to remember any incident where he has used his any skills or smartness to avoid the difficulties and asked to remember the others who are part of your life as well as who came across your life and left a positive unforgettable memorable experience. He also differentiate between static verses dynamic identity and asked to learn as many skills as students can during whole Engineering life at Engineering premises.

At the end of the session, many students have asked many question on contributors identity like to whom we can call contributor in Mahabharata and the answered as it symbolizes our society so all characters are contributor who teaches us and inculcate the life values.

## **Vote of Thanks:**

Faculty of Humanities & Science, **Asst. Prof. Sunil Der** has gave vote of thanks to **Expert Prof. Akash Thakkar** for delivering his expert Skype talk and improved the curiosity as well as professional life values into students. He also thanked to **Trustees, Director/Principal Dr. H M Nimabrck Sir, HOD Prof. A G Makati** and Expert **Skype Talk** attendees for their positive support and presence during the Expert Talk.

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3. Activity : Faculty Development Program by Dr. Ketan kotecha

Type : FDP

Date: 14<sup>th</sup> March 2015

Venue : OM Engineering College,Junagadh.

### Introductory Session:

**Dr. Ketan Kotecha Sir** has started the session with asking question on what are the basic methods of evaluating **effectiveness of teaching** – learning process and what are the techniques of classroom interactions to judge the teaching percentage.

Faculties have responded that open book, case study, asking questions.**Dr. Kotecha** has shared the goal to be set to judge that how much teaching is gained by students.

He asked that what the difference between **assessment** and **examination** is and started with general discussion.

Assessment conducted for knowing progress where examination can be done to judge syllabus. He suggested the summative assessment but how said that we never say that continue examination. He also said about formative assessment.

He shared the **methods classroom measuring techniques** with **three pillars cycle** like **curriculum, syllabus, classroom measurement** to reach its visions of learning and course objectives.

What is assessment? It is data gathering techniques which guides teacher related to know the progress of teaching learning methodology, it is learner centered techniques. It is formative assessment as well as summative assessment for particular subject and context specific. It's ongoing progress.

- A teacher should ask four questions that are my students learning what I think I am teaching?
- Who is learning and who is not learning?
- What am I doing that is useful for these students?
- What am I doing that is not useful for these students?



### Useful Techniques in classroom:

- RECALL
- PRIOR KNOWLEDGE
- UNDERSTANDING

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## Methods:

- **Background knowledge:** Questionnaire and start with new topic.
- **Focused Listening...**(recursion)

## Tasks for Faculties:

- Select one topic from subject which is being taught by him and find the recursion techniques in classroom.
- He has divided all attendees in various group of four and gave time.



## Misconception/preconception check:

Sun rises in the east; women in kitchen...all are misconceptions...

## Empty Outlines:

Most important lesson learnt yesterday MILLY as it means to ask questions on last lessons progress

## Minute Paper:

What are the unanswerable hard questions in the classroom? So it will motivate to share their difficulty in the classroom which helps teachers to increase the effectiveness of teaching in the classroom.

## Muddiest Point:

It can be used at any time during a class session like what are the most confused questions of the class lecture, assignment, video, presentation, discussion.

## Techniques for assessment skills in analytical and critical thinking:

- **Categorizing Grid**  
Defining Features Matrix: Categorizes the rent vs. fare, hurricane vs. tornado is used when it is similar.
- **Defining Featured Matrix**  
Like where one likes to publish their research paper where everyone can read easily
- **Pro and con Grid**  
Like advantages and disadvantages of an issue or concern. He also shared the pros and cons of active learning for trying to get best out of that where taking responsibility, more participation etc.
- **Analytical Memos**  
Like sharing the story of contaminated ground water...like write environment policy analyst and crises of ground water...such questions can improve analytical skill while teaching.

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## Assessing skill in synthesis and creative thinking:

- One sentence summary  
Who, When, why, where, what ...questions
- Word Journal  
Short text to learn from single word ...
- Approximate Analogies  
Teaching is to learning. \_\_\_\_\_ is to \_\_\_\_\_.  
Training, validation and testing are terminology of artificial intelligence.
- Concept Maps

It means to connect the previously learnt concepts along with new concepts. It will help students to learn the difference and their mind can able to store the topic depth by differentiating old and new concepts.

He gave a task to prepare a concept map of the particular subject.

**Pradip Vala Dept of Electrical**, subject, coordinated system - electro mechanics – electrical field.

**H M Maru, Dept of H&S**, Subject Physics on Smart Material Science.



## Documented Problem Solutions:

- **Audio and Videotape Protocols:**  
He shared that skit drama only as rehearsals but we do not have rehearsals in our teaching in the field of education. Everyone can capture their own pick points and weak points through videography.
- **Direct Paraphrasing:**  
It means comparing two paragraphs for improving students understanding.
- **Application Cards:**  
One can use real world life application for what they have learned.
- **Students Generated Test Questions:**  
Teacher can set suitable test questions, as actual test.
- **Human Tableau or Class Modeling:**  
It is used particularly useful for assessing kinesthetic learners.
- **Paper or Project Prospects:**  
Teacher can prepare brief first draft plan for whole term.
- **Assessing Awareness of Attitudes and values**  
Few points add like Everyday ethical dilemmas. Classroom opinions polls, double entry journals, profiles of admirable individuals, course related self confidence surveys.



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There were all faculties of Om Engineering as well as Om Institute of Engineering & Technology have attended and get benefited and concluded the session and learnt a lot many techniques from **Dr. Ketan Kotecha sir**.

### **Vote of thanks:**

**Director** as well as **principal, Dr. H M Nimbar sir** has given vote of thanks for conducting faculty development program to **Director, Dr. Ketan Kotecha sir Nirma University** for raised the curiosity as well as attention towards the importance of evaluation methods into students. He also thanked to **Trustees, HODs** from Degree as well as Diploma Studies and faculties as attendees for their positive support and their presence during the Faculty Development Program.