



# WELCOME

## IQAC 11<sup>th</sup> Regular Meeting

**Thursday, 22nd December 2016**

# Agenda

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- 1. Confirmation of the minutes of 10<sup>th</sup> meeting.**
- 2. Action taken report on the resolutions of 10<sup>th</sup> meeting.**
- 3. Issues open for discussion:**
  - a. Incubation centers**
  - b. Identification of Industries at departmental level**
  - c. Any other item with the permission of Chairperson**

# **Agenda 1: Confirmation of the minutes of 10<sup>th</sup> meeting**

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**Following issues were discussed in the last meeting**

- a) Best Practices**
- b) Faculty Training Centre**
- c) Compost Plant**

**I request you to confirm the above issues.**

## **Agenda 2: Action taken report on the resolutions of 10<sup>th</sup> meeting.**

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**Following issues have been taken up in the last meeting**

- a) Best Practices**
- b) Faculty Training Centre**
- c) Compost Plant**

## **Agenda 2(a) : Best Practices**

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**Following are confirmed as Best Practices at college level**

**1. MOODLE**

**2. Technical Models development**

# Best Practice 1 - MOODLE

## 1. MOODLE (MODULAR OBJECTIVE – ORIENTED DYNAMIC LEARNING ENVIRONMENT)

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- Moodle is an open –source software learning management system developed on pedagogical principles.
- It simplifies the learning process.
- It is user friendly.
- It has multiple features including recording and tracking, documentation and administration, as well as classroom learning.
- The Moodle learning environment is fast, flexible and adaptable.

# Best Practice 1 - MOODLE

## **Moodle is used for**

- **Blended learning (online digital media with traditional classroom methods),**
- **Distance education,**
- **Flipped classroom (students gain first exposure to new material, usually via reading or lecture videos, and then class time is used to assimilate the knowledge through discussions or problem solving.) and**
- **Other e-learning projects.**
- **For creating private websites with online courses to achieve learning goals, with customizable management features,**
- **Moodle mobile app is available in Google Play store.**

# Best Practice 1 - MOODLE

## Salient features of MOODLE in teaching – learning process

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- **Assignment Submission**
- **Discussion Forum**
- **Files Download**
- **Video lectures**
- **Grading**
- **Instant Messages**
- **Online quizzes**
- **Gamification of study material and problems**



## **Best Practice 2**

### **Technical Models development**

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- **Students are encouraged to develop prototypes in the respective fields**
- **Proposed to encourage the students by funding the development of prototypes to a tune of minimum Rs.10000 to maximum Rs.50000**
- **Proposed to introduce the habit of developing innovative experimental models by identifying the students from 2<sup>nd</sup> year onwards.**
- **Display of innovative models in exhibitions.**
- **The best models will be recognized with suitable rewards and awards.**

# Best Practice 2

## Technical Models development

**Models exhibited for last three years in various departments**

<b>Dept</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
<b>CIVIL</b>			
<b>Model</b>	<b>1.Multipurpose Barrage</b> <b>2.Interior Design of railway station foot over bridge</b>	<b>1.Denmark to Sweden Under water bridge</b> <b>2.Smart City</b> <b>3.Rain water harvesting</b>	<b>1.EQ resistant building</b> <b>2.Bahai temple</b> <b>3.Solid Waste Management</b>
<b>Prize / recognition</b>	<b>1<sup>st</sup> prize for Multipurpose Barrage</b> <b>Special prize for Interior Design of railway station foot over bridge</b>	<b>1<sup>st</sup> prize for Denmark to Sweden Under water bridge</b> <b>Special prize for Smart City</b> <b>Special prize for Rain water harvesting</b>	<b>1<sup>st</sup> prize for EQ resistant building</b> <b>2<sup>nd</sup> prize for Bahai temple</b> <b>3<sup>rd</sup> prize for Solid Waste Management</b>
<b>Outcome</b>	<b>Lot of interest generated among students</b>	<b>Got special appreciation from honorable CM</b> <b>Sri. Nara Chandrababu Naidu</b>	-

# Technical Models development

Dept	2014-15	2015-16	2016-17
<b>Mechanical</b>			
<b>Model</b>	War Robot Mobile Controlled boat Hydraulic crane	Spot Welding Energy magnetic field Hydraulic crane	Pick and Place Robot Geneva Mechanism Peltier Effect Swinging Arm Lifter
<b>Prize / recognition</b>	IN Engineersday-2014: 1 <sup>st</sup> prize for war robot 2 <sup>nd</sup> prize for mobile controlled boat 3 <sup>rd</sup> prize for hydraulic crane	In Engineersday-2015: 1 <sup>st</sup> prize for Spot Welding. 2 <sup>nd</sup> prize for Free Energy Magnetic Wheel. 3 <sup>rd</sup> prize for Hydroulic Crane.	In Engineersday-2016: 1 <sup>st</sup> prize for Geneva Mechanism 2 <sup>nd</sup> prize for Peltier Effect 3 <sup>rd</sup> prize for Swinging Arm Lifter.
<b>Outcome</b>	War robot which is capable to cut bricks, Iron sheets and wood. Presented a model in IIT Kharagpur model contest and received merit certificate	Spot welding is selected and sponsored by Power Mech projects Ltd. Amount Sponsored is Rs. 25,800/-	The Department level Project selection committee selected these 8 models for funding from college.

# Technical Models development

Dept	2015-16	2016-17
<b>Electrical</b>		
<b>Model</b>	<ol style="list-style-type: none"> <li>1.Underground cable fault detection</li> <li>2.Automatic Irrigation system</li> </ol>	<ol style="list-style-type: none"> <li>1.Bluetooth control using 8051</li> <li>2.Geo-Tag and surveillance drone</li> <li>3.Automatic Home Appliance control with bi directional visitor counter using 8051 Microcontroller</li> </ol>
<b>Prize / recognition</b>	<ol style="list-style-type: none"> <li>1<sup>st</sup> prize for Underground cable fault detection</li> <li>2<sup>nd</sup> prize for Automatic Irrigation system</li> </ol>	<ol style="list-style-type: none"> <li>1<sup>st</sup> prize for Bluetooth control using 8051</li> <li>2<sup>nd</sup> prize for Geo-Tag and surveillance drone</li> <li>3<sup>rd</sup> prize for Automatic Home Appliance control with bi directional visitor counter using 8051 Microcontroller</li> </ol>
<b>Outcome</b>	<ol style="list-style-type: none"> <li>1.The proposed project detects the location and type of fault occurred in underground cables using micro controller.</li> <li>2.The proposed project identifies the present condition of the atmosphere using sensors and sends data to the consumer to take decisions accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1.The proposed project is robot whose motion can be controlled from a remote place using mobile application</li> <li>2.The proposed project identifies the object in the vicinity of drone with the help of Geo-Tag.</li> <li>3.The proposed project minimizes the power consumption in a room by controlling the appliances based on density of population in the room.</li> </ol>

## Agenda 2(b): Faculty Training Centre

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- Siddhartha Engineering College stands for **quality in teaching** and it is one of our major strengths. The college is not ready to compromise in this regard.
- **A two week teachers training program** (24<sup>st</sup> March – 6<sup>th</sup> April 2016) has been organized by IQAC and the program is successfully completed with the help of all senior faculty of our college.
- Since there is over whelming response from junior faculty, it is further decided by IQAC to establish **Faculty training centre**, where all newly joined faculty will undergo the training before taking up the responsibilities of teaching.

## **Agenda 2(b) : Faculty Training Centre**

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- **The Curriculum and Assessment methodologies are ratified in the previous meeting.**
- **It is decided to organize one training program every year for newly joined faculty.**
- **Dr M. Padmaja, Professor, ECE is requested to organize Faculty Training Programs**
- **Dr Rajeev, expert in Scientific Teaching-Learning methodologies, is requested to conduct a three day training program for new faculty, as a first attempt under FTC.**

## **Agenda 2(c): Compost plant**

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- **Construction of proposed Compost shed is in progress with the encouragement of Principal and Management.**
- **It is about to complete in Dec. 2016 and may be kept in operation in Jan. 2017**
- **It is located near existing solid waste disposal point.**

## Agenda 2(c): Compost plant

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## **Agenda 3 : Issues open for discussion**

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**3. a. Incubation centers**

**b. Identification of Industries at departmental level**

**c. Any other item with the permission of Chairperson**

## **3(a). Incubation centers**

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# **INCUBATION CENTERS**

**- Dr. K.S. Rama Krishna**

## **3(b).Identification of Industries at departmental level**

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### **Objectives:**

- 1. To promote Internships**
- 2. To interact with industries to solve their problems**
- 3. To expose the students to field problems**
- 4. To improve the placements in the branches where average % of placements is less than 50 for the last four years.**

# Department wise identified industries

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## • CIVIL

- Airport Authority of India
- Irrigation and CAD works
- Satyavani Projects
- L&T Constructions
- Vizag Steel Plant
- GMR Infratech
- Maruthi Constructions

## • MECHANICAL

- Resins & Allied products, Vijayawada
- Power Mech projects Ltd., Hyderabad
- Naga sai precision Engineering Pvt Ltd, Hyderabad
- Rachana Machines Pvt,Ltd, Hyderabad
- Kusalava International Ltd, Agiripalli mandal

# Department wise identified industries

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- **EEE**
- **Dr.NTTPS**
- **BHEL**
- **Vizag steel**
- **APTRANSCO**
- **APGENCO**
- **EIE**
- **Vizag Steel Plant, Vizag**
- **VTPS, Vijayawada**
- **BHEL, Hyderabad**
- **NFCL, Kakinada**
- **ATI , Hyderabad**

# Department wise identified industries

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- **CSE**

- **NTT Data, Bangalore**
- **Tonmetri info solutions, Hyderabad**
- **Extranet s/w solutions, Gannavaram**
- **Indian Servers, Hyderabad**
- **National Informatic Center, Hyderabad**

- **IT**

- **NTT Data, Bangalore**
- **Tonmetri info solutions, Hyderabad**
- **Extranet s/w solutions, Gannavaram**
- **Indian Servers, Hyderabad**
- **National Informatic Center, Hyderabad**

## **Depts. having less than 50% of placements**

- **Civil Engineering and**
- **EIE**

## **Agenda 3 (c): Issues open for discussion**

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**Any other item with the permission  
of Chairperson.**



**THANK YOU**