

# SANKALAN (संकलन)



## **Vision of the Department**

*To prepare civil engineering professionals with an ability to develop designs and initiate innovative thoughts focusing on infrastructural needs with a social responsibility.*

## **Mission of the Department**

*M1: To enhance technical skills among the students by adopting effective teaching-learning processes.*

*M2: To impart knowledge of emerging infrastructural needs of the society for developing eco-friendly designs.*

*M3: To inculcate technical competencies among the students to enable them to meet present and future challenges.*

*M4: To prepare for life-long learning with professional ethical practices.*

## **Editorial Board**

### **Faculty**

**Dr. G. Manohar,**

**Professor & Head, - Editor**

**T. RajaRamanna - Co-ordinator**

**M. Srividya - Co-ordinator**

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### **Students:**

**1. G. Saicharan**

**2. B. Geetanjali**

**3. K. Pranusha**

## **MATRUSRI ENGINEERING COLLEGE**

Approved by AICTE & Affiliated to Osmania University

16-1-486,Saidabad,Hyderabad-500059

Website: <http://matrusri.edu.in>

## DEPARTMENT ACTIVITIES

1. Three day orientation program on “Engineering Graphics using AUTO-CAD”. 21/7/2016 to 23/7/2016.
2. Three day workshop on “*Quality Initiatives in Outcome based Technical Education*” 1/9/2016 to 3/9/2016 At MECS, Hyderabad.
3. Seminar on STAAD PRO by **Er. Mohd.Firasit Imarat** consultancy services, Hyd on 13/07/2016.
4. Hands on workshop on “Engineering Graphics using Auto CAD” by Prof. **A.Vasan**, BITS, HYD on 21/07/16 to 23/07/16.

## FACULTY ACTIVITIES

1. **Smt .P.Dhanamma, Smt .D.Radha, Smt.S.Lokeswari, Sri.S.V.Chary, Smt.M.Pratibha** Attended Three day orientation program on “Engineering Graphics using AUTOCAD”.from 21/7/2016 to 23/7/2016 at MECS, Hyderabad.
2. **Dr.Adaikkala Kumar P.** Attended Three day workshop on “*Quality Initiatives in Outcome based Technical Education*” 1/9/2016 to 3/9/2016 At MECS, Hyderabad.
3. **Sri.P.V.S.Koteswara Rao** Attended Two Day Workshop on “ Design, construction, evaluation and Maintenance of cement concrete pavements 21/10/16 to 22/10/2016 at UCE, O.U, Hyderabad
4. **Smt.K.Smitha** Attended Two Day Workshop on “Design,construction, evaluation and Maintenance of cement concrete pavements” 21/10/16 to 22/10/2016 at UCE, O.U, Hyderabad.
5. **Dr.G.Manohar** Attended Three day workshop on “*Quality Initiatives in Out come based Technical Education*” 1/9/2016 to 3/9/2016 At MECS, Hyderabad.
6. **Sri.S.V.Chary** Attended Two day work shop on “Design, Construction, Evaluation and Maintenance of CC Pavements” 21/10/2016 to 22/10/2016 UCE, O.U, Hyderabad
7. **Smt.G.Satyavathi** Attended Three Day “National Conference of Plant Physiology” 8/12/2016 to 10/12/2016 The University of Agricultural Sciences, GKVK, Bengaluru, India.

## FACULTY ACHIEVEMENTS

1. **S.Lokeswari** published a paper in International conference on Recent Innovations in Engineering and Technology (ICRIEAT-2016) with title Experimental Studies on Engineering Properties of River Sand and Robo Sand.

## STUDENT ACHIEVEMENTS

1. Ms.**P.Amulya Sree**, a student of 2012-16 batch, secured University **Second rank** in examinations conducted by O.U.
2. About 20 students of final year students 2013-17 batch have participated NSIC sponsored One day workshop on “Entrepreneurship” held at MECS on 01/10/2016.

## ARTICLE

### RAMAPPA TEMPLE-AN INGENUITY EDIFICE

The Ramappa Temple, probably is the only temple in India known by the name of the sculptor who built it. This temple has been rightfully described as the “brightest star in the galaxy of medieval temples of the Deccan” a repository of Kakatiyan ingenuity, intricate carvings, adorning richly chiselled walls, pillars and ceilings of this marvellous edifice.



In 1980, Indian Archaeological Department, In association with NIT Warangal started researching on the kakatiya constructions for the first time Ever. That is when this technology was first came into notice. Later it was named as “Sand Box Technology” In 1991 in the archaeological department officer’s conference. Kakatiyas have used Sand in the foundations of the **Earthquake resistant constructions**. Depending on the size, architecture and area of the construction they used to dig at least **3 meters deep** for the foundation. It will be filled with sand and for the sand mixture to become strong, it will be mixed with the powder mixture of **Granite, Jaggery, Terminalia Chebula** (Karakkaya in telugu) . In Normal constructions, we make sure that the foundation is strong enough to bare the weight of the construction. They used sand as foundation material, so that it works like a **cushion**.

This sandbox absorbs stress from all sides, so when an earthquake occurs, the primary and secondary vibrations emitted by the earthquake losses most of their strength by the time they reach the construction as this sandbox absorbs most of it. In order to keep the stones used in construction of walls, pillars, rooftops of temple together from separating, they made small tunnels like holes in all the rocks and poured iron in them. These **iron dowels** holds the rocks strongly making the total edifice fit like a frame and stronger. The aesthetic sense which scaled innumerable heights in Kakatiya grandeur is clearly an unique testimony in these adroit structural and artistic masterpiece.

**K.Kartikaeshwari Rani,  
B.E CIVIL 1/4**

## GALLERY



**Three Day Orientation Program on ENGG GRAPHICS using AUTO CAD” ,21st –23rd July**



**Commencement of 2/4,3/4,4/4 Class Work for Civil and Mechanical departments in the new Building.**

**Which was inaugurated on 11th July,2016**