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Workshop  
on  
**RESEARCH FACILITIES FOR STUDIES ON SOIL  
LIQUEFACTION, FIRE AFFECTED STRUCTURES AND  
COAST PROTECTION STRUCTURES**

**(Cyclic Triaxial Test Facility, NDT Equipment and Repair Tools  
and Wave Maker)**

**(March 27, 2017)**



ISO 9001-2008 Certified

**Organized  
by**

Department of Civil Engineering  
College of Engineering (Autonomous)  
Andhra University, Visakhapatnam – 530 003  
Andhra Pradesh., India

**Under  
UGC-SAP (DRS-1) Programme**

## **ABOUT THE WORKSHOP**

The vulnerability of different locations spread across the world to earthquakes is increasing day by day. Major earthquake hazards include liquefaction of ground, Structural instability, occurrence of Fire accidents due to short Circuits and Tsunamis. Hence, appropriate studies on mitigating the effect of earthquake hazards are essential to reduce damage to infrastructure, property damage and to protect the coast line. Realizing the need, laboratory facilities are set up in civil engineering department, A.U. College of Engineering, Visakhapatnam to enable research related to assessment of Earthquake hazards and their mitigation.

## **ABOUT COLLEGE OF ENGINEERING (A), ANDHRA UNIVERSITY**

College of Engineering (A), Andhra University, is established in the year 1955 with four departments and has grown into 15 departments. The institute is popular world over for its quality education, research and consultancy services. The institute is accredited by NAAC and NBA. The Department of Civil Engineering is very active in spreading technological information among students, researchers and practicing engineers by way of organizing Symposia, Workshops, Conferences and Training Programmes etc.

## **UGC SAP (DRS-1) PROGRAMME**

The Civil Engineering Department is sanctioned with Special Assistance Programme (DRS-1) by University Grants Commission, New Delhi for a period of 5 years for promoting research in the following thrust areas.

1. Performance of Fire affected RCC Structural Elements after Repair
2. Tsunamis and Coastal Flooding: Hydrodynamic Performance Study of Coastal Protection Structures
3. Liquefaction Studies on Fibre Reinforced Sand

Cyclic Triaxial Test Facility, Non Destructive Test facilities and repair tools for Heat Affected Concrete Structures and Wave Maker for Shore Erosion Control Studies are established in the department for carrying out research in the thrust areas and are being used by post graduate students and research scholars. As part of UGC SAP (DRS-1) programme activities, the present workshop is being organized to expose the academicians, researchers and practicing engineers to the laboratory facilities created in the thrust areas. The resource persons include

1. Prof. R.B. Sahu, Department of Civil Engineering, Jadhavpur University
2. Prof. C.N.V. Satyanarayana Reddy, Department of Civil Engineering, Andhra University
3. Prof. K. Srinivasa Rao, Department of Civil Engineering, Andhra University
4. Dr M.G. Muni Reddy, Department of Civil Engineering Andhra University

## **DATE AND VENUE**

The workshop will be organized on 27<sup>th</sup> March 2017 at the Seminar Hall of Civil Engineering Department, College of Engineering (A), Andhra University. The Schedule of the Workshop is given below.

### **Schedule**

9.00 am – Registration

9:30 am – Inaugural Function

10.15 – High Tea

10.30 am - Lecture 1: Cyclic Triaxial Test facility - Significance

11.15 am- Lecture 2: Equipment for Studies on Heat affected Concrete Structures

12.00 Noon: Lecture 3: Liquefaction risk in coastal deposits and Mitigation

12.45 p.m - Lecture 4: Wave maker for studies on model coastal protection structures

1.30 p.m - Lunch

2.30 - 4.00 p.m: Demonstration of Laboratory facilities

- Cyclic Triaxial Test set up in Geotechnical Engineering Laboratory
- NDT Equipment and Boggie Hearth Furnace in Structural Engineering Laboratory
- Demonstration of Wave maker equipment in Coastal Engineering Laboratory

4.00 p.m: High Tea

## **REGISTRATION FEE**

Registration fee the workshop is Rs 500/- for the participants from Industry. There is no registration fee for faculty members from academic institutions, research scholars and post graduate students. However, prior information about participation shall be given to the coordinators of the Workshop, preferably before 25<sup>th</sup> March 2017. The registration fee is payable through cheque/DD favouring Coordinator, UGC SAP (DRS-1), Department of Civil Engineering, A.U., Visakhapatnam.