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NAAC Accredited with "A" grade, Accredited by NBA
New Delhi & Certified by ISO 9001:2008
DEPARTMENT OF CIVIL ENGINEERING (C.E Dept)
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Phone: 08659-222933, Fax: 08659-222931

Two-Day National Level Workshop

Topic: Design of Tall buildings and structures using ETABS

Resource Person: Sri Mustafa, Robokart.com, Mumbai.

Occasion: IE (I) Student Chapter activity organized in association with Innovation Cell, IIT Bombay and Robokart.com

Date & time: 17th and 18th March 2017

Venue: Rose Hall/V Block

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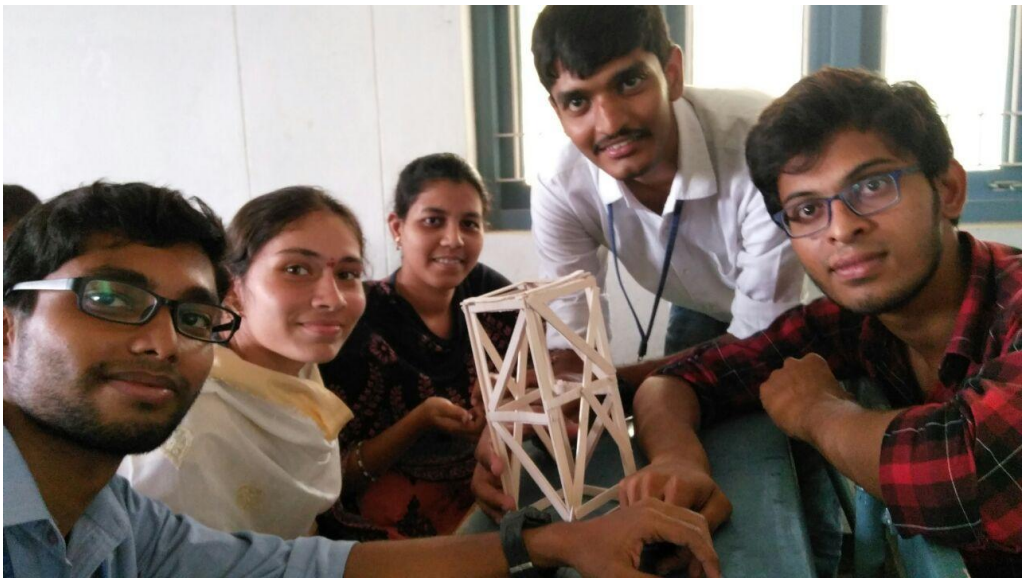

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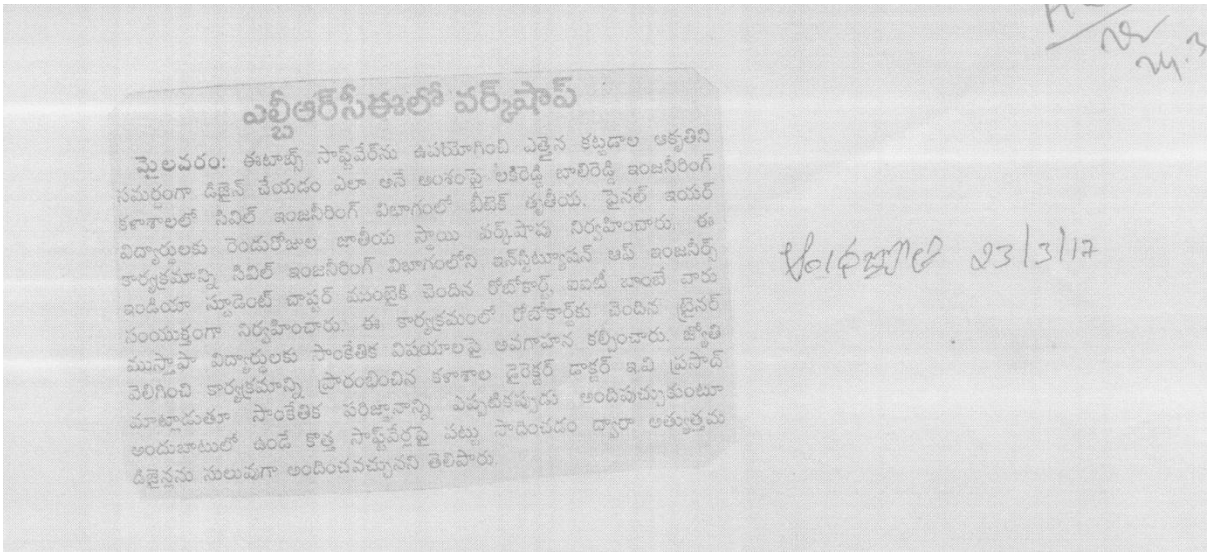
REPORT

A two-day National Level Workshop on Design of Tall buildings and Structures using ETABS is organized by Civil Engineering Department in association with Innovation Cell, IIT Bombay and Robokart.com. This programme is organized as a part of IE (I) Student Chapter activity for the 3rd and 4th B.Tech Civil students. Mr Mustafa of Robokart acted as Resource person in the programme.

The participating students are briefed by Mr Mustafa about the basic concepts of ETABS and the analysis of tall structures using the software. Later the participants are asked to fabricate a framed structure resembling a tall structure model using Balsa wood. The model is tested by applying external loads. The model with less material and carrying higher external load is considered as the best model and prizes are awarded to the winners.

The programme is highly interactive and the students enjoyed throughout the sessions. They brought out their skills and creativity in developing the model. The entire exercise helped them to improve their technical skills through the needed practical exposure that was possible in the workshop.

Mr M. Manojkumar acted as Faculty coordinator for this programme with the support from four student coordinators. Dr V. Ramakrishna, HOD of Civil Engineering acted as Convener while Mr B. Ramakrishna, Faculty advisor of IE(I) student chapter supported the team..



ఎల్బీఆర్‌సీఈలో వర్క్‌షాప్

మైలవరం: ఈటాబ్స్ సాఫ్ట్‌వేర్‌ను ఉపయోగించి ఎత్తైన కట్టడాల ఆకృతిని సమర్థంగా డిజైన్ చేయడం ఎలా అనే అంశంపై లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో సివిల్ ఇంజనీరింగ్ విభాగంలో బీటెక్ తృతీయ, ఫైనల్ ఇయర్ విద్యార్థులకు రెండురోజుల జాతీయ స్థాయి వర్క్‌షాపు నిర్వహించారు. ఈ కార్యక్రమాన్ని సివిల్ ఇంజనీరింగ్ విభాగంలోని ఇన్‌స్టిట్యూషన్ ఆఫ్ ఇంజనీర్స్ ఇండియా స్టూడెంట్ చాప్టర్ ముంబైకి చెందిన రోబోకార్ట్, ఐఐటీ బాంబే వారు సంయుక్తంగా నిర్వహించారు. ఈ కార్యక్రమంలో రోబోకార్ట్‌కు చెందిన ట్రైనర్ ముస్తాఫా విద్యార్థులకు సాంకేతిక విషయాలపై అవగాహన కల్పించారు. జ్యోతి వెలిగించి కార్యక్రమాన్ని ప్రారంభించిన కళాశాల డైరెక్టర్ డాక్టర్ ఇవి ప్రసాద్ మాట్లాడుతూ సాంకేతిక పరిజ్ఞానాన్ని ఎప్పటికప్పుడు అందిపుచ్చుకుంటూ అందుబాటులో ఉండే కొత్త సాఫ్ట్‌వేర్లపై పట్టు సాధించడం ద్వారా అత్యుత్తమ డిజైన్లను సులువుగా అందించవచ్చునని తెలిపారు.

24.3

వీరవల్లిలో 23/3/17

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Two-Day National Level Workshop

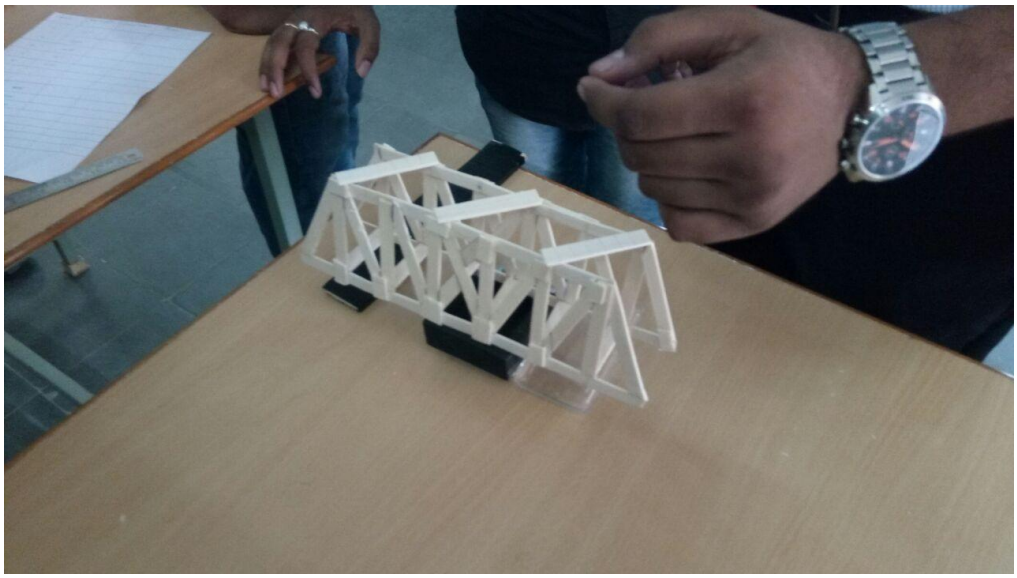
Topic: Civil Bridge Designing

Resource Person: Sri Mustafa, Robokart.com, Mumbai.

Occasion: IE (I) Student Chapter activity organized in association with Innovation Cell, IIT Bombay and Robokart.com

Date & time: 24th and 25th March 2017

Venue: Rose Hall/V Block



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REPORT

A two-day National Level Workshop on Civil Bridge Designing is organized by Civil Engineering Department in association with Innovation Cell, IIT Bombay and Robokart.com. This programme is organized as a part of IE (I) Student Chapter activity for the 1st and 2nd B.Tech Civil students. Mr Mustafa of Robokart acted as Resource person in the programme.

The participating students are briefed by Mr Mustafa about the basic concepts of bridge design, analysis of members, materials used and their properties etc using a specially designed software. The participants are trained to make designs using the software. Later the participants are asked to fabricate a truss bridge model using Balsa wood. The model is tested by applying external loads. The model with less material and carrying higher external load is considered as the best model and prizes are awarded to the winners.

The programme is highly interactive and the students enjoyed throughout the sessions. They brought out their skills and creativity in developing the model. The entire exercise helped them to improve their technical skills through the needed practical exposure that was possible in the workshop.

Mr M. Satyanarayana acted as Faculty coordinator for this programme with the support from four student coordinators. Dr V. Ramakrishna, HOD of Civil Engineering acted as Convener while Mr B. Ramakrishna, Faculty advisor of IE (I) student chapter supported the team.

ప్రయోగాత్మక అంశాలపై దృష్టి

మైలవరం: విద్యార్థులు కేవలం తరగతిలో పాఠాలే కాకుండా ప్రయోగాత్మక అంశాల పైనా దృష్టి సారించాలని మైలవరం లక్ష్మీ రెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాల డైరెక్టర్ ఈవీ ప్రసాద్ పేర్కొన్నారు. కళాశాల సివిల్ ఇంజనీరింగ్ విభాగం ఆధ్వర్యంలో బీటెక్ ప్రథమ, ద్వితీయ సంవత్సర విద్యార్థులకు బ్రిడ్జి డిజైనింగ్ అంశంపై రెండ్రోజుల జాతీయ స్థాయి కార్యశాలను సోమవారం నిర్వహించారు. కార్యక్రమాన్ని ఐఐటీ బొంబై ఇన్నోవేషన్ సెల్, రోబోకార్ట్ కళాశాల స్టూడెంట్ చాప్టర్ ఆధ్వర్యంలో నిర్వహించారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ నేర్చుకున్న సాంకేతిక విషయాలను మదింపు చేసుకోవాలని అన్నారు. వాటి ద్వారా నమూనాలు తయారు చేసుకోవాలని తెలిపారు. రోబోకార్ట్ ముఖ్య శిక్షకుడు ముస్తఫా బ్రిడ్జి నిర్మాణాలపై ప్రత్యేకంగా రూపొందించిన సాఫ్ట్‌వేర్‌ను ఉపయోగించే అంశాలపై వివరించారు. అనంతరం విద్యార్థులు చెక్కతో రూపొందించిన బ్రిడ్జి నమూనాలను పరిక్షించారు. బల్సా చెక్కను తక్కువగా ఉపయోగించి, ఎక్కువ సామర్థ్యం గల నమూనాలను రూపొందించిన విద్యార్థులను విజేతలుగా ఎంపిక చేసి బహుమతులు అందజేశారు. కార్యక్రమంలో ప్రిన్సిపాల్ ఎస్‌ఆర్‌ఎం రెడ్డి, విభాగాధిపతి రామకృష్ణ, ప్రొఫెసర్ శ్రీనివాసరెడ్డి, కోఆర్డినేటర్ సత్యనారాయణ పాల్గొన్నారు.

మాట్లాడుతున్న డైరెక్టర్ ఈవీ ప్రసాద్

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INAUGURATION

Title	***Inauguration of LBRCE Civil Engineering Student Chapter of Institution of Engineers (India)***
Chief Guest	*Dr P. Kodandarama Rao, Professor & HOD, Civil Engineering Department, Gudlavalleru Engineering College, Gudlavalleru and Executive Committee member, Institution of Engineers, AP State Centre, Vijayawada*
Date & Time	*22-02-2017, 10.00 am*
Venue	*Rose Hall, Admin Block*

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ఈనాడు

కెరీర్‌ను తీర్చిదిద్దుకునేందుకు అవకాశం

సదుపాయం అందజేస్తున్న
కోదండ రామారావు

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REPORT

The Student Chapter of Institution of Engineers (India) for Civil Engineering was inaugurated at LBRCE on 22-02-2017 at LBRCE campus. Dr E.V. Prasad, Director, LBRCE presided over the function while Dr P. Kodandarama Rao, Professor & HOD, Civil Engineering Department, Gudlavalleru Engineering College, Gudlavalleru and Executive Committee member, Institution of Engineers, AP State Centre, Vijayawada acted as the Chief Guest.

The Chief Guest highlighted the history of the Institution of Engineers (India), the various State centers, Forums that were established under the Institution. He explained in detail the benefits of the membership, Bye-laws for organizing the student chapter and several advantages that can be availed. He explained the different types of memberships that can be had from the IE (I) by the engineering students, teaching faculty, and practising engineers.

Dr E,V. Prasad focussed on the importance of having membership in Professional societies such as Institution of Engineers (India). Dr N.R.M. Reddy, Principal detailed the benefits that can be availed by the civil engineering students through the IE (I) chapter.

The Student chapter is inaugurated with an initial membership of 96 students of B.Tech Civil Engineering. Sri B. Ramakrishna, Asst Professor, Civil Engineering Department was nominated as Faculty Advisor for the programme at LBRCE. Dr V. Ramakrishna, HOD of Civil Engineering Department delivered the welcome address while best wishes were offered by Dr K. Sreenivasa Reddy, Professor, Civil Engineering Department.

The Student Chapter was formally inaugurated by distribution of identity cards to the student members by the dignitaries. The Chief Guest was felicitated with a memento on this occasion.

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INDUSTRIAL VISIT

Industry visit details: Balaji Ready Mix Concrete Plant, Autonagar, Vijayawada

Date : 28-09-2016

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Report

The Second year and Fourth year B. Tech. Civil Engineering students (2013 &2015 batch) of Lakireddy Balireddy College of Engineering Mylavaram have underwent an Industrial visit to the **Ready mix concrete plant** at Autonagar, Vijayawada on **28-09-2016.** The students are divided into 8 batches under the control of three faculty members.

There are several advantages of ready mix concrete which is widely used nowadays. (i) high speed of construction (ii) quality production of concrete (iii) efficient reduction in cement used (iv) ease of placing at required location (v) storage space for the raw materials is avoided (vi) reduction of environmental pollution in terms of dust and less cement use.

The Balaji Ready Mix Concrete plant at Autonagar, Vijayawada is operated at a production capacity of 1 m3 per batch of concrete making. The raw materials for concrete making viz., coarse aggregate, fine aggregate and cement are locally procured. The aggregates are stored in separate chamber. They are mixed with cement falling from silos in a special mixing tank. The mixed concrete is finally collected separately. It is finally transferred to a transit mixer and is sent to the customer.

The industrial visit has given a very good exposure to all the students with regard to mixing and making of ready mix concrete, which is an essential requirement of construction of structures at the site.

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INDUSTRIAL VISIT

Industry visit details: Hospital Waste management Facility operated by M/s Safe Environ, near NRI Hospitals, Guntur District and a 12m culvert being constructed near Kuntamukkala on Bhadrachalam highway

Date : 22-10-2016

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Report

The 3rd year B Tech Civil Engineering students of Lakireddy Balireddy College of Engineering, Mylavaram have underwent an industrial visit to the Hospital waste management facility near NRI Hospitals, Guntur District and a 12m span culvert being constructed near Kuntamukkala on Bhadrachalam highway on 22.10.2016.

The Hospital waste management facility is unique of its kind and is the first facility in Krishna and Guntur districts to be operated. The facility collects 1500 kg/day of hospital waste from the hospitals in Vijayawada and Guntur. Around 95% of the hospitals in both the cities are registered with this facility for safe disposal of their hospital waste. The waste is categorized and sent to the facility in different color bags by the hospitals as per the MoEF norms of Bio medical Waste Management and Handling Rules. An incinerator heats the waste to 1100C and the 80 kg/day of ash produced is disposed off in concrete pits lined with polythene sheets. The plastic wastes such as syringes are crushed and sterilized in an autoclave and sent for recycling after sterilisation. The sharp objects such as blades, knives, needles etc are disinfected using hypochlorite solution and disposed off in concrete pits. The wastewater produced from the plant is recycled after initial treatment and is used in the premises for washing and gardening. Usage of personal protective equipment such as goggles, gloves and long boots are mandatory in the facility for ensuring safety of the personnel.

The students later visited the construction of a 12 m span culvert being constructed as a part of road expansion on Bhadrachalam highway near Kuntamukkala. The students studied the reinforcement details of slab and side walls being used for the purpose.

The industrial visit has given a very good exposure to all the students with regard to the guidelines prescribed by the MoEF in India for Bio Medical waste Management and handling and the safety precautions that are to be taken in the operation of such facility. Study of the reinforcement details of culvert have given additional insight to the students with regard to placing of reinforcement in the site construction.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)
L.B.REDDY NAGAR, MYLAVARAM-521 230.A.P. INDIA
Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi
NAAC Accredited with "A" grade, Accredited by NBA
New Delhi & Certified by ISO 9001:2008
DEPARTMENT OF CIVIL ENGINEERING (C.E Dept)
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Phone: 08659-222933, Fax: 08659-222931

INDUSTRIALVISIT

Place of Visit: **Pulichintala Hydro Electric Project, Nalgonda District**

Date: 10.03.2017

Target students: 3rd and 4th B.Tech Civil Engineering students

REPORT

As a part of IE (I) Civil Engineering Student Branch LBRCE activity, an industrial visit to Pulichintala Hydro Electric Project, a 120 MW hydroelectric power station (4 units of 30 MW each), located in Nalgonda District was organized on 10.03.2017. Around 100 B.Tech civil students from 3rd and 4th year along with 5 faculty members took part in the visit.

The Pulichintala dam built across the Krishna River between areas in Nalgonda on one side and Guntur on the other side, is the third major irrigation project, after Srisailam and Nagarjunasagar. It was opened on 7 December 2013 by Chief Minister of Andhra Pradesh.

The project has a total pondage of 45.77 TMCft out of which 30 TMCft will be live storage while the rest will be dead storage. This dam has a height of 42.23m, length of 2922m, and width of 31m. It gives irrigation facility to 13 lakh acres. It has 24 gates in all with a balancing reservoir of capacity of 45.77 TMCft. The plant is currently under the control of TG (Telengana) GENCO. When water impinges on turbine through a penstock with a high velocity, propeller blades rotate. The 3 phase alternator or simply generator coupled to the turbine produces electric power.

The plant consists of a 3 Phase ac alternator consisting of 48 poles and generates power of 120MW, is currently in designing process. The plant is fitted with 4 Kaplan turbines each having 6 blades capable of producing 30 MW each. Kaplan turbines are widely used throughout the world for electrical power production.

The plant authorities gave a detailed account of various technical issues of the plant such as alternator working process and its parts such as stator, rotor and electromagnetism phenomena, draft tubes, penstocks, working and advantages of Kaplan turbines, pumping system beneath the dam, location of the dam, and principles of energy conversion – hydro – mechanical – electrical and subsequently generation of electricity.

The visit, primarily an educational tour, helped the students and the faculty members to get a very good exposure of the basics behind planning, construction, working and various practical aspects of a hydro electric project. The help and cooperation from the plant authorities was excellent as they explained all the necessary details in a lucid manner.