



Civil Quest

NEWS LETTER OF CIVIL ENGINEERING DEPARTMENT, K L UNIVERSITY

PATRON: Er. K. SATYANARAYANA – President

EDITOR: Dr. V.Ranga Rao – Head & Chair, Dept. of CE

INSIDE:

- Vision
- Mission
- Short Term Goals
- Long Term Goals
- Department Profile
- Department Achievements
- News Corner
- Department Staff
- Guest Lectures
- Extension Activities
- Consultancy
- Student Achievements
- Industrial Visits
- Games & Sports

FROM THE EDITOR:

I am happy to present our monthly news letter, the Civil Quest, for the month of March 2018 of Civil Engineering Department.

Department welcomes the new faculty who joined our team recently. Faculty & student achievements & some of the department activities are highlighted in this issue.

I am thankful to the contributors and look forward for more inputs for the future issues of Civil Quest.

Dr. V.Ranga Rao
Editor – Civil Quest

VISION OF THE DEPARTMENT

To impart technical education in cutting edge technologies, inculcating applied research, scholarly inquiry, creative endeavor, through the knowledge and values based moulding of students and make an imprint in the economic and social development of the Nation.

SHORT TERM GOALS

- To encourage faculty of the department to attend Academic Conferences, Seminars, Summer & Winter Schools, and other training programs
- To offer Research-oriented Projects for final year B-Tech students
- To emphasize on Soft Skills and Communication abilities of students
- To provide continuous training and reorientation to the Faculty to keep up with the modern trends

LONG TERM GOALS

- To interact with industries and sign MOU's for collaborative programs
- To obtain live-projects from Industry
- To introduce more P.G. Courses in the Department
- To improve infrastructure further for Consultancy work
- To conduct International, National Conferences and Short Term Courses (Winter & Summer) regularly
- To add advanced software in the Department over and above the Curriculum
- To add non-destructive testing equipment's in the concrete laboratory
- To maintain the standards required by NBA and NAAC

DEPARTMENT PROFILE

The Department of Civil Engineering was established in 1980 with an intake of 60 students and 5 Faculty. The department has been successful in producing the excellent and well-trained graduates. Today we have 630 Students and thirty-one members of teaching staff drawn from premium institutes throughout India out of whom three are Professors, eight are Associate Professors and Twenty are Assistant Professors. Fifteen staff members are having more than ten years experience, seven are doctorates and Thirteen pursuing PhD's.

The departmental activities embrace Testing, Planning, Design, Construction and Management. The Department offering Courses for Graduates in civil Engineering, Post graduates in Structural Engineering and PhDs in civil Engineering. The department has flexible syllabus for the students to get placed for their post graduation in specialized branches of civil engineering like Structural Engineering, Geotechnical Engineering, Transportation Engineering, Environmental Engineering etc.

The department has well equipped laboratories. Many of our alumni hold prestigious positions in leading academic institutions, industry and government in different countries all over the world.

ACADMICS AND ACHIVEMENTS:

- Dr. P. Sundar Kumar had given a guest lecture on "Advances and Applications in Hydraulics and Hydraulic Machinery" -Narayana Engineering College, Gudur.
- Dr. P. Sundar Kumar acted as a judge for National level Technical fest, EMER'GE'-2018, Dr.Samuel George Institute of Engineering & Technology (Dr.SGIT), Markapuram, Guntur.
- Dr. P. Polu Raju delivered an invited talk titled on "3D Sandwich Panels" as part of two-day workshop on 'Advance Techniques and career development in Civil Engineering, at Civil Engineering Department of St. Mary's Integrated Campus, Hyderabad, 21st and 22nd August 2017.

- Dr. P. Polu Raju delivered an invited talk titled on "Analysis and Design of Structural Elements: Theoretical and Analytical Approach (Software Based)" as part of three-day workshop on 'NUTHAN 2K18" Recent Innovations and Engineering Techniques', at Civil Engineering Department of Aurora's Engineering College, Bhongir, Bhuvangiri (Dist), Telangana State, 23rd February 2018.
- Dr. P. Polu Raju delivered an invited talk titled on "Structural Behaviour of 3D sandwich panels under general loading" as part of one-day workshop on "Recent Developments in Civil and Earthquake Engineering-RDCEE-18" at Dr. J.N. Baruah Auditorium, CSIR-NEIST Campus, Jorhat, Assam, India, 9th April 2018.
- Dr. P. Polu Raju attended as an external project examiner for B. Tech IV-II Semester Regular VIVA-VOCE Examinations held on 04-04-2018 approved by JNTU Kakinada at Department of Civil Engineering, Kallam Haranadhareddy Institute of Technology (KHIT), Guntur (Dist)
- Dr. A. Aravindan published paper entitled "Experimental study of High Strength Concrete by partial replacement of Fine Aggregates by ceramic tile waste" in an International conference organized by Velammal Engineering College Chennai.
- The department of Civil Engineering, K L University is ISO certified and accredited for two times by NBA, and NAAC with "A" Grade and CGPA (3.76 / 4.00)
- The department has a track record of generating highest revenue in terms of Consultancy at K L University and also providing testing services for expansion of its infrastructure.
- Consistent in providing 100% placements for consecutive six years in construction companies such like L&T, HCC, TECHNIP, GMR, SP, ESSAR, CCCL, TCE, etc. along with other IT & Infra related companies and R&D organizations
- The entire faculty of the department are well qualified in their PG and/or Ph D from reputed Universities, where more than 50% of them are from IITs with M-Tech as a minimum qualification.

DEPARTMENT LEVEL ACTIVITIES**1. CONSULTANCY WORKS**

Consultancy Tests Conducted In Our Department for Different Clients from the Period January 2018 to March 2018

K L UNIVERSITY			
DEPARTMENT OF CIVIL ENGINEERING			
Particulars of Consultancy for period from January 2018 to March 2018			
S. No.	Date	Name of the Client	Tests
1	27/12/2017	ULTRA TECH READY MIX VADDESWAREM	Concrete Cubes Testing
2	30/12/2017	CONCRETE AND LIMELIGHT PROJECTS,TADEPALLI.	Testing On Red Bricks & Steel
3	01-03-2018	APCRDA,GOLLAPUDI	Concrete Cubes Testing
4	01-03-2018	SIRI BUILDERS AND DEVELOPERS	Concrete Cubes Testing
5	01-06-2018	SANDHYA SOIL ENGINEERING WORKS	Testing on Soil (SPT)
6	01-06-2018	SANDHYA SOIL ENGINEERING WORKS	Testing on Soil (SPT)
7	01-06-2018	SARVANI READY MIX CONCRETE VADDESWAREM	Testing on Water for Construction purpose
8	18/01/2018	FOOD CORPORATION OF INDIA,VIJAYAWADA	Testing on Concrete beams
9	19/01/2018	SIRI BUILDERS AND DEVELOPERS	Concrete Cubes Testing
10	19/01/2018	FOOD CORPORATION OF INDIA,VIJAYAWADA	Testing on Concrete beams
11	19/01/2018	FOOD CORPORATION OF INDIA,VIJAYAWADA	Testing on Concrete beams
12	20/01/2018	LINDA INDIA LIMITED	Testing on Water for Gardening purpose
13	20/01/2018	APEWIDC,GUNTUR SUBBA REDDY	Concrete Cubes Testing
14	20/01/2018	APEWIDC,GUNTUR SUBBA REDDY	Concrete Cubes Testing
15	23/01/2018	K.KISHORE KUMAR ,RWS & S PARCHURU	Concrete Cubes Testing
16	24/01/2018	MEGHA INFRA.MUNNANGI	Concrete Cubes Testing
17	27/01/2018	S R ENGINEER & PLANNERS	Testing on Soil (S.B.C)
18	27/01/2018	PRI SUB DIVISION ,TENALI	Concrete Cubes Testing
19	29/01/2018	L V PROJECTS & INFRA,KOLANUKONDA	Concrete Cubes Testing
20	30/01/2018	K VENKATESWARA REDDY ,FCI,VIJAYAWADA	Concrete Design Mix & Testing on Beams
21	30/01/2018	SURESH REDDY,FCI,VIJAYAWADA	Testing on Beams
22	30/01/2018	MRGR CONSTRUCTION TENALI	Testing on Soil (S.B.C)
23	30/01/2018	MRGR CONSTRUCTION TENALI	Testing on Soil (S.B.C)
24	30/01/2018	HPCL,SURYAPET	Testing on Bricks,Cubes

25	23/01/2018	CONCRETE AND LIMELIGHT PROJECTS,TADEPALLI.	Testing on Core Samples,Red Bricks and Sand
26	23/01/2018	CONCRETE AND LIMELIGHT PROJECTS,TADEPALLI.	NDT Test on Existing Compound Wall
27	31/01/2018	R YADUKONDALU.HPCL	Testing on Concrete cubes,Bricks and water
28	02-01-2018	R YADUKONDALU.HPCL	Concrete Cubes Testing
29	02-02-2018	MRGR CONSTRUCTION TENALI	Testing on Soil (SBC)
30	02-02-2018	APEWIDC,GUNTUR ,SUBBA REDDY	Testing on Soil (SBC)
31	02-03-2018	PRIME LIVING PVT.LTD.TADEPALLI	Testing On Steel
32	02-05-2018	PRAJASHAKTHI SAHITI SAMSTA,VADDESWARAM	Testing on Concrete cubes
33	02-06-2018	SIVI KALYAN POWER SYSTEMS,SAKAMURU	Sand Replacement Test in Field
34	02-07-2018	ANDHRA CRICKET ASSOCIATION,MANGALAGIRI	Testing on Soil (SBC,MDD,OMC,ORGANIC MATTER)
35	02-07-2018	CRYSTAL CONSTRUCTIONS,GUNTUR	Testing on Concrete cubes
36	02-09-2018	CRYSTAL CONSTRUCTIONS,GUNTUR	Testing on Concrete cubes
37	02-09-2018	SRI VASAVI KANYAKA COMMERCIAL COMPLEX TREDERS WELFARE SOCIETY,GUNTUR	Testing on Concrete cubes
38	02-09-2018	SRI VASAVI KANYAKA COMMERCIAL COMPLEX TREDERS WELFARE SOCIETY,GUNTUR	Testing on Concrete cubes & Steel
39	02-10-2018	Mr.A.VARMA.DRDA,GUNTUR	Testing on Soil (S.B.C)
40	02-10-2018	Mr.A.VARMA.DRDA,GUNTUR	Testing on Soil (S.B.C)
41	02-10-2018	LAXMI TUBE WELL WORKS,VIJAYAWADA	Testing on Soil (SPT)
42	02-12-2018	Mr.D.PURNA CHANDRA RAO G.KONDURU	Concrete Design Mix & WMM,BM,GSB,DGBM
43	13/02/2018	IJM INFRA.NAMBURU	Testing on Water for Drinking Purpose
44	13/02/2018	M/S KRISHI CONSTRUCTIONS PVT.LTD,APCRDA	Concrete Design Mix & Testing on Steel
45	14/02/2018	GREEN PETAL INFRA AND RESOURCES,PVT.LTD.	Testing on AAC Blocks
46	17/02/2018	LAXMI ANJANA BORE WELL WORKS,VIJAYAWADA	Testing on Soil (SPT)
47	17/02/2018	PRIME LIVING PVT.LTD.TADEPALLI	Testing on Cubes

48	17/02/2018	K&P INFRASTRUCTURE,VIJAYAWADA	Testing on Water for Drinking Purpose
49	20/02/2018	IJM LINGAMANENI INFRA.NAMBURU	Testing on Water for Drinking Purpose
50	20/02/2018	APEWIDC,GUNTUR	Testing on Soil (SBC)
51	26/02/2018	GOLD PILLAR INFRA,MANGALAGIRI	Testing on Water for Drinking Purpose
52	26/02/2018	MEGHA INFRA,MUNNANGI	Testing on Cubes
53	26/02/2018	VSS CONSTRUCTIONS	Concrete Design Mix
54	26/02/2018	K.SREEKANTH BABU,GORANTLA	Testing on Water for both cinstructions and Drinking
55	14/02/2018	CONCRETE AND LIMELIGHT PROJECTS,TADEPALLI.	Sand Replacement Test in Field And Tests on red Bricks,Sand
56	27/02/2018	CWC RO HYDERABAD	Testing On Materials
57	27/02/2018	SREP INFRA.Pvt.Ltd.	Testing on Soil (SPT)
58	10-03-2018	BERM PARK,VIJAYAWADA	Testing on Concrete cubes
59	10-03-2018	BERM PARK,VIJAYAWADA	Testing on Steel
60	10-03-2018	R YADUKONDALU HPCL	Testing on Concrete cubes
61	10-03-2018	R YADUKONDALU HPCL	Testing on Concrete cubes
62	10-03-2018	PRIME LIVING PVT.LTD.TADEPALLI	Testing on Concrete cubes
63	10-03-2018	T.VENKATESWARA RAO	Testing On Ballast
64	10-03-2018	MEGHA INFRA,MUNNANGI	Testing on Concrete cubes
65	10-03-2018	R S SRIGDHA PROJECTS,PATHUR	Testing on Steel
66	10-03-2018	VSS CONSTRUCTIONS	Testing on Steel
67	10-03-2018	BONDADA ENG PROJECTS,HYDERABAD	Testing on Concrete cubes
68	10-03-2018	R SREEKANTH,GORANTLA	Testing on Water for Gardening and domestic

			Purpose
69	12-03-2018	PRIME LIVING PVT.LTD.TADEPALLI	Testing on Concrete cubes
70	15/03/2018	PRAJASHAKTHI SAHITHI SAMSTA,VADESWAREM	Testing on Concrete cubes
71	17/03/2018	SANDHYA SOIL ENG.WORKS	Testing on Soil (SPT)
72	21/03/2018	VENU,PH&ME Dept.	Concrete Design Mix and steel
73	21/03/2018	SARVANI READYMIX CONCRETE INDUSTRY,KOLANUKONDA	Testing on Water for Construction Purpose
74	23/03/2018	SANDHYA SOIL ENG.WORKS	Testing on Soil (SPT)
75	27-03-2018	DEC INFRASTRUCTURE PROJECTS INDIA Pvt,Ltd. MANGALAGIRI	Testing on cement and Materials
76	27-03-2018	LAKSHMI ANJANA TUBEWELL WORKS,VIJAYAWADA	Testing on Soil (SPT)
77	27-03-2018	SOMA ENTERPRISE LTD	Testing on Water for Construction Purpose

2.FACULTY PUBLICATIONS

- [1] H. Kommineni, "A STATISTICAL EVALUATION ON ROAD SAFETY AUDIT: A MODEL STUDY FROM HANUMAN JUNCTION TO KANAKA DURGA VAARADHI VIJAYAWADA," *Int. J. Mech. Eng. Technol.*, no. 9.
- [2] H. Kommineni, "STABILIZATION OF BLACK COTTON SOIL BY USING CEMENT, LIME AND RICE HUSK IN FLEXIBLE PAVEMENTS," *Int. J. Eng. Technol.*, no. 7.
- [3] J. C. S. and S. A. M. AVINASH REDDY, "AN INTEGRATED EVALUATION FOR FEASIBILITY STUDY OF MONORAIL AS MASS RAPID TRANSIT SYSTEM FOR VIJAYAWADA Download," *Int. J. Mech. Eng. Technol.*, no. 9.
- [4] B. S. S. R. R. and S. A. P. BHARGAVA REDDY, "EVALUATION OF MAINTENANCE MANAGEMENT IN CONSTRUCTION TO REDUCE THE MAINTENANCE COST Download," *Int. J. Mech. Eng. Technol.*, no. 9, pp. 367–374.
- [5] D. S. C. and S. A. NAGALLA VASISHTA, "ANALYSIS OF RISK ASSESSMENT IN CONSTRUCTION OF HIGHWAY PROJECTS USING RELATIVE IMPORTANCE INDEX METHOD Download," *Int. J. Mech. Eng. Technol.*, no. 9, pp. 1–6.

- [6] A. A. S Dhanasekar, P T Ravichandran, S Vinothraj, “experimental study on high strength concrete by partial replacement of fine aggregate by cement tile waste,” *Jt. Int. Conference Intell. Comput. Appl. power circuit Inf. Technol. Conduct. by 2 3 february, 2018 organised by Dep. Electr. Electron. Eng. Velammal Eng. Coll. Chen.*
- [7] D. P. S. Kumar, “Identification of Critical Erosion Prone Areas and Computation of Sediment Yield using Remote sensing and GIS - a Case Study of Sarada River Basin,” *J. Inst. Eng. Ser. A.*
- [8] D. P. "T. Reshma, K. Venkata Reddy and V. Agilan", “Parameters Optimization using Fuzzy Rule Based Multi-Objective Genetic Algorithm for an Event Based Rainfall-Runoff Model,” *Water Resour. Manag.*

3.GUEST LECTURES

3.1. Significant & Sustainability of Water in India

On the occasion of “World Water Day” a Guest lecture has been arranged by Dr. P Sundara Kumar and Dr. T Reshma with the support of Dr. V Ranga Rao, Professor and Head of the Civil Engineering Department, KL University, Vaddeswaram, Guntur District. Guest lecture was conducted at seminar hall of MBA department, KL University. The lecture was given by Dr. M Anjaneyulu Prasad, Professor in Civil Engineering Department, Osmania University, Telangana on 22nd March 2018 from 9. 30 A.M to 12.30 P.M. From his lecture the following points has been summarized. • Discussed on the importance and sustainability of water in India with some case studies. • Discussed about the key activities that benefit water conservation (save water) are as follows: Any beneficial reduction in water loss, use and waste of resources. Avoiding any damage to water quality. Improving water management practices that reduce the use or enhance the beneficial use of water.



3.2. Use of GGBS and Slag Sand in Concrete

Department of Civil Engineering Organized a GUEST LECTURE on 29th March 2018 at M207 in K L University. All the M.Tech and Final year B.Tech students have attended the Guest Lecture. Guest Lecture was delivered by Dr. Jagadish Vengala, HoD & Associate Professor, Department of Civil Engineering, BMS institute of technology and management, Bangalore. The Welcome note was given by Dr. V. Ranga Rao, Professor and Head of the civil department, and introduced the chief guest. Honourable guest had delivered his speech on “Use of GGBS and Slag Sand in Concrete”.



3.3. Entrepreneurship in Civil Engineering

Department of Civil Engineering Organized a GUEST LECTURE on 31th March 2018 at New Seminar Hall in K L University. All the M.Tech and final year B.Tech students have attended the Guest Lecture. Guest Lecture was delivered by **Mr. A. Satish, Deputy Chief Engineer, North-frontier railways, Guwahati**. The Welcome note was given by Dr. V. Ranga Rao, Professor and Head of the civil department, and introduced the chief guest. Honourable guest had delivered his speech on “**Entrepreneurship in Civil Engineering**”.



4. EVENTS

4.1. RACE – A NATIONAL LEVEL TECHNICAL FEST on 5th & 6th March 2018

KL-RACE (Recent Advances in Civil Engineering) is the annual technical festival of Department of Civil Engineering, K L deemed to be University. RACE has been working as a great platform for the students across the country to showcase and enhance their skills at the highest level since its inception in 2011. RACE is now the largest civil engineering festival in AP.

There are many competitions held in RACE such as Symposiums, Posters, Bridge Nirman, CAD Conquerors, Technopathi, Democraft, Prahelika and many more which let the students compete and enhance their practical knowledge. As a part of knowledge sharing endeavor, workshops are conducted professionals like ULTRATECH CEMENT etc. And many more fun events are a part of RACE which makes the learning a fun. We at RACE, do not aim to just put up a fest, our vision is to reach every interested student, professor, personnel from the industry, to pool their resources together to bring up solutions to the most important challenge in India's development – infrastructure. We focus to create a platform for the students to showcase their talent in civil engineering and help them over-reach in this field, we envision a fest which is uniquely different from any other college fest of the kind, with a strong motive and purpose.





4.2. 3- Day Training Program on PRIMAVERA P6 Fundamentals

Primavera is comprehensive, high performance, multi-project planning and control software. It is ideal for project intensive industries. Primavera helps organizations manage just about any type of portfolio. Primavera gives a multitude of ways to organize, filter and sort activities, projects, and resources. It has a rich graphical interface to plan and manage and report on projects. Primavera deals with project management in all major industry domains like civil, mechanical and electrical. Professionals who are knowledgeable in project management skills and techniques can use Primavera to promote agility and productivity in organizations.



Mr. Madhavan J V, Resource person addressing the participants



Mr. Vinay Kumar Kotti, Resource person addressing the participants



Ms. Sandhya Maddula, Resource person addressing the participants



Dr. V. Ranga Rao, HOD-CE and Department Chair, K L Deemed to be University addressing the participants

4.3. DSS & RM

The Two Day National Workshop on Design of special structures and research methodology (DSS&RM - 18) aims at providing a common platform for professionals, industrialists, academicians, researchers and students to share their knowledge and ideas for achieving focused developments and advancements in emerging techniques in Construction and Structural Design Practices. The theme of DSS&RM-18 is Design of retaining walls: The session on retaining walls deals with the case studies include design of retaining walls with inclined back fill and surcharge loading. Also, it focuses on the design of counterfort retaining wall. Design of shear critical elements: This session deals with the concepts of design of shear critical elements such as deep beams, corbels and shear walls. Topics to be covered in research methodology lecture are: Introduction to “Earn your doctorate”, Demo on useful software like Text-to-speech, Speech-to-text, formatting techniques, plotting tools, Drawing tools, Animation (GIF files), Video editing.





Industrial Visit to Ramakrishna Techno Towerz

Ramakrishna techno towers is a cluster of 25 towers of 31 floors each which is under construction near kaza tool plaza. Which consist of facilities like parks and play area, outdoor sports, waterbodies, seating, mini golf etc. The exclusive clubhouse has spaces for indoor games, party areas and socializing.

Students of 1st year MTech visited the project. the site in-charge explained about the project layout, foundation construction, shear wall construction various structural accepts of the construction like grade of concrete, materials used for concrete manufacturing, bearing capacity, process of construction like shuttering and form work, curing of concrete, quality and safety procedures following.

