



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

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FROM THE EDITOR:

I am happy to present our monthly news letter, the Civil Quest, for the month of June 2017 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 equipments 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.

a) ACADMICS AND ACHIVEMENTS :

- Civil department is happy to announce that Dr. P. Polu Raju had Successfully completed and awarded with honored Ph.D Degree from IIT Madras with structural engineering specialization.
- 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
- Around 200 research papers were published by faculty of the Department in reputed and refereed International / National Journals, and also submitted innovative projects to the Department of Science and Technology (DST), Government of India in the last two years

b) RESEARCH ACTIVITIES

- Ph.D part time scholar Mr. Shyam Prakash completed his final pre-talk under the guidance of Dr.Ch. Hanumantha Rao and waiting for viva voice.
- Mr. B. Sharath Chandra Kumar faculty of civil engineering department had completed his final pre-talk under the guidance of Dr.K.Ramesh and waiting for viva voice.

Research Publications

- 1." Experimental study on strength and durability properties of gpc with ggbs" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 039–050, N.Veerendra Babu, B.G. Rahul, Y.Himath Kumar
- 2." Comparative study on effect of steel and glass fibers on compressive and flexural strength of concrete" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 144-155, Ghouse Basha, P. Polu Raju
- 3." Experimental study on bacterial concrete with partial replacement of cement by fly ash" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 201–209, R. Sri Bhavana, P. Polu Raju,SS Asadi
- 4." Behavior of soft storey rc framed building under seismic loading" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 256–277, B. Lalitha Chandrahas, P. Polu Raju
- 5." Performance based seismic design of rc framed building" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 401–412, B. Rohit Ranjan Singh, P. Polu Raju

6. "Effect on strength properties of concrete by partial replacement of cement with calcium bentonite and Fly ash" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 450–455, B. Praveen Kumar, V. Ranga Rao, M. Achyutha Kumar Reddy
7. "Effect of strength parameters in concrete with partial replacement of cement using hypo sludge by adding fibers" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 456–466, Y. Suneel Kumar, K.J. Brahma Chari, N. Srujana
8. "Seismic study of g+5 rc framed structure supported on raft foundation" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 467–476, B. Akash Singh, N. Lingeshwaran
9. "Pushover analysis of rc building: comparative study on seismic zones of india" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 567–578, V. Mani Deep, P. Polu Raju
10. "Analysing and designing of a high rise building (g+10) by staad.pro" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 654–658, T.B. Manadeep, I. Siva Kishore, N. Surjana
11. "An experimental study of sensor based smart structure design: a modal study" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 862–867, Konduru Uday Kumar, Shaik Niha Boby, Subratha Ghoshal, SS. Asadi
12. "Effect of molarity on compressive strength of geopolymer mortar with ggbs and metakaoline" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 935–644, Sai Sandeep, Sk. Kalesha, Y. Himath Kumar, B. Sarath Chandra Kumar

13. "Partial replacement of cement by flyash in porous concrete" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1099–1103, G. Ravi Teja, M. L. Sai Ranga Rao.
14. "Encourage health and safety management in highway projects (case study)" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1238–1241, Shahrukh Shaik, Siva Kishore I
15. "Tensile and flexural behaviour of high strength concrete reinforced with natural (valvet mesquite)" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1384–1393, Manoj Kumar Velagala, Gopichand Buddi, K.J. Brahma Chari, I. Siva Kishore
16. "Analysis of a commercial building using etabs" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1438–1444, Yash Kumar K. Jain, V. Naga Sri Nikhil, P. Polu Raju
17. "Analysis and design of commercial building" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1445–1451, Mounika. Pallapolu, Aquila Angel. Pilli, K. Prasanthi
18. "Analysis of segments across cable stay bridge through simulation using staad pro model study" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1452–1461, Marri Vamsi Krishna, Yalamuri Ashok Reddy, I. Siva Kishore
19. "A critical swot analysis city planning: a model analysis for smart model study from eluru city" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1506–1513, B. Gopala Krishna Reddy, Y. Harsha N. Lingeshwaran. S. S. Asadi

20. "Experimental study on plastic fiber reinforced flyash based geo-polymer concrete" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 1522–1530, A. Gowtham Kumar, K. Prasanthi
21. "Comparative study on analysis of plain and rc beam using abaqus" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 1531–1538, Ch. Koteswara Rao, P.Polu Raju, T.Naga Seshu Babu.
22. "Comparative study on flexural behavior of lightweight aggregate rc beams" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 1546–1561, K. Harish Kumar, Dr. P. Polu Raju.
23. "Construction of a building using fly ash concrete" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 1809–1814, Syed Saifali, R. Rkhil, S. Lakshmipathi, Afshan Sheikh
24. "Analysis and design of g+4 residential building using etabs" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 1845–1850, C.V.S. Lavanya, Emily.P.Pailey, Md. Mansha Sabreen, U.P.B.C. Sekhar
25. "Manual analysis and design of post tensioned pre-stressed concrete t-beam segment bridge using proto-type model" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 1872–1887, Palden Humagai, Pavan Kumar Peddineni, C. Raja Mallu
26. "Evaluation of recycled aggregates& fly ash used in flexible pavements:a model study" International Journal of Civil Engineering and Technology (IJCET) Volume 9, Issue 3, April-June 2017, pp. 958–964, Sai Venkatesh N, Praveen Reddy M, Hemantha Raja K, M L Sai Ranga Rao

27. "Performance evolution of bituminous mixes using coir geotextiles" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1068–1073, A. Siva Teja and K. Keshav Prasad, B.G. Rahul, K. Hemantha Raja.
28. "Use of industrial wastes in the construction of flexible pavements" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1117–1122, K. Sunil, K. Sahithi, T. Reshma, K. Hemanth Raja.
29. "Partial replacement of bitumen with glass fiber in flexible pavement" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1176–1181, K. Sri Harsha, M. Nikhil, K. Hemantha Raja
30. "Design of polyester (recron-3s) fiber reinforced flexible pavement" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1231–1237, G Pradeep Reddy, G Tarun Krishna, K Hemantha Raja, S Shahabas.
31. "Strengthening of contaminated soil at tadepalli region by using cement as stabilizing agent" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1800–1808, Satya Ravi Teja G, Bala Raju T, Syam Chamberlin K
32. "Strength characteris of fibre reinforced concrete using recycled pet" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 092–099, Y. Dinesh, Ch. Hanumantha Rao
33. "Usage of waste materials in pavement construction with replacement of conventional materials" International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 3, April-June 2017, pp. 1305–1312, Sravanth B Sambaturu, Surendra Y.L, T. Nagaseshu Babu, K. Hemantha Raja, SS. Asadi

34. "Experimental study on bacterial rice husk ash concrete by incorporating quarry dust as partial replacement Of fine aggregate" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 744–751, K. Nagajyothi, K. Shyam Chamberlin, SS. Asadi, M. Maheswara Reddy.
35. "Estimation of runoff for agricultural utilization using Geoinformatics: a model study from telangana state" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1132–1144, M. V. Raju, SS. Asadi, M. Satish Kumar, Hepsibah Palivela
36. "Creation of an integrated optimal urban drainage network planning and analysis of chambered sewage Treatment plant: a model study frompart of vijayawada, ap" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1086–1098, Sai Sree, SS.Aasdi,P. Polu Raju
37. "A study on development of low cost environmental friendly and sustainable irrigation techniques" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 823–829, D. Deepthi, E. Vasavi, K. Pravallika, P. Swathi, K. Rajasekhara
38. "Estimation of water quality index by weighted arithmetic water quality index method: a model study" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1215–1222, D. Satish Chandra, SS. Asadi, M.V.S. Raju.
39. "Empirical approach for estimation of soil quality index: a case study" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1408–1415, D. Satish Chandra, S.S. Asadi, M.V. S. Raju

40. "Evaluation of cost and time impacts to overruns in construction industry" approach for estimation of soil quality index: a case study" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1416–1424, .V. Raju, S.S. Asadi, M. Satish Kumar, Hepsibah Palivela
41. "Assessment of heavy metal concentration in ground water by using remote sensing and gis" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1562–1573, M. Satish Kumar, SS. Asadi, S.S. Vutukuru
42. "Creation of query based decision support system for selection of pipeline corridor site using rs & gis:a model study" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1659–1667, Y Ranjith Kumar and M Akhil gopinadh, B Mohanty, SS. Asadi.
42. "Creation of query based decision support system for selection of pipeline corridor site using rs & gis:a model study" International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1659–1667, Y Ranjith Kumar and M Akhil gopinadh, B Mohanty, SS. Asadi.
43. "Evaluation of air quality index using analytical approach - a model study from a.p." International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1687–1695, D. Satish Chandra,SS. Asadi, M.V.S. Raju
44. "Removal of heavy metals from industrial waste water using coconut coir." International Journal of Civil Engineering and Technology (IJCIET)Volume 9, Issue 3, April-June 2017, pp. 1869–1871, Ch. Aravind, K. Chanakya K. Mahindra
- 45."Methods of seismic retrofitting by using etabs software", International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.94-99,ISSN : 0976-6316, Abdul Kalam, Muzeera Babu SK, Lingeshwaran N.

46. "Study Of High Grade Portland Slag Cement Concrete Containing Granulated Blastfine Aggregate", International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.100-112,ISSN : 0976-6316, Ch. Srinivasarao, SS. Asadi, M. Kameswararao.
47. "An Experimental Study For Evaluation Of Time And Cost Driven Factors Analysis Of A Commercial complex", International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.139-146,ISSN : 0976-6316, Chandrahas Sai B, SS. Asadi.
48. "Structural Performance Of High Fiber Concrete With Bamboo Reinforcement",International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.147-159,ISSN : 0976-6316. S. Koti, I. Siva Kishore.
49. "Risk Management In Construction Equipment", Sai Teja N, Surya Anil Ch, Afshan Sheikh, International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.160-167,ISSN : 0976-6316, Sai Teja N, Surya Anil Ch, Afshan Sheikh.
50. "Effect On Flexural Strength Of Reinforced Geopolymer Concrete Beams By Using Ggbs, Metakaolin And Alkaline Solution", International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.175-188,ISSN : 0976-6316, G.Adisekhar, B. Sarath Chandra Kumar.
51. "Evaluation Of Land Use/Land Cover Changes In Vijayawada City By Using Remote Sen Sensing And Gis", International Journal of Civil Engineering and Technology (IJCIET),Volume 9, Issue 3, May 2017, pp.217-223,ISSN : 0976-6316, Y. Ravi and D. Santhosh, D. Satish Chandra.

52. "Analysis And Design Of A (G+4) Building", International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 3, May 2017, pp.260-266, ISSN : 0976-6316, S.Venugopal, K.Dileep Kumar, Shubham Singh, N.Lingeshwaran.

53. "Use Of Waste Plastic In Flexible Pavements", International Journal of Civil Engineering and Technology (IJCIET), Volume 8, Issue 5, May 2017, pp.350-356, ISSN : 0976-6316, V.Rushendrareddy and T.Surendra, B.Rahul.

54. "Mapping And Evaluation Of Construction Materials In And Around Amaravathi-The Capital Of Andhra Pradesh", International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 3, May 2017, pp.404-408, ISSN : 0976-6316, Ayyappa. M and Jayaram Reddy. G.

55. "Experimental Study On Strength Parameters Of Concrete By Partial Replacement Of Cement With Recycled Crushed Glass Powder", , International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 3, May 2017, pp.444-450, ISSN : 0976-6316, M. Mounika, B.Venkat Lalith, V.Ranga Rao, G. Lalitha.

56. "Swirl Velocity Visualization By The Les In Combustion Chamber", International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 3, May 2017, pp.451-456, ISSN : 0976-6316, Naveen J, K. Krishnasairam, M. Sureshratankumar, Y. Vinayababu, P. Jayadeep.

57. "Estimation Of Infra Structure Requirements For Development Of Smart City : A Model Study On Kakinada; Andhra Pradesh, India", International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 3, May 2017, pp.984-998, ISSN : 0976-6316, P. Vinod Kumar Reddy, Raja Sekhar Reddy K, SS. Asadi.

58. "Evaluation Of Land Use And Land Cover Using Remote Sensing And Gis:A Model Study Fromguntur District". International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 3, May 2017, pp.559-566, ISSN : 0976-6316, ,SS.Asadi, Biswajita Mohanty and J.K.Sai Varma, G.Goutham Krishna.

59."The Study On Plastic Waste In Flexible Pavements", International Journal of Civil Engineering and Technology (IJCET),Volume 8, Issue 5, May 2017, pp.310-314,ISSN : 0976-6316, M.Murali Krishna and S.Shiva kumar V. RangaRao, K.Shyam chamberlain.

60."An Experimental Study On Partial Replacement Of Bagasse Ash In Basaltconcrete Mix", International Journal of Civil Engineering and Technology (IJCET),Volume 9, Issue 3, May 2017, pp.335-341,ISSN : 0976-6316, K.V.Ramesh and R.Goutham, I. Siva Kishore.

61."Effects of acids and bases contamination on soil properties in pavement construction", International Journal of Civil Engineering and Technology (IJCET),Volume 8, Issue 4, April 2017, pp.1595-1602 ,ISSN : 0976-6308, Melbourne Kid Syiemiong, Rishav Verma and B.G Rahul, G Sri Harsha.

Research Scholars Admissions

Sl.No	Application Number	Nameo of the Applicant	Mode of Admission
1.	1779942	L Lakshmi kanth	<u>Full Time</u>
2.	1780920	S N Krishnakanth	Part Time
3.	1778942	S Akhil Mastan	Part Time
4.	1779388	S Goverdhan reddy	Part Time
5.	1779487	J Srinivas Prasad	Part Time
6.	1779739	K Vinay Kumar	Part Time
7.	1780395	Y Pradeep Kumar	Part Time
8.	1780639	T Divya Bhavana	Part Time
9.	1780884	G Naveen Kumar	Part Time
10.	1780893	P Ramaiah	Part Time

11.	1780902	S Kmalakar Rao	Part Time
12.	1780912	P Vijay Kumar	Part Time
13.	1781020	Y Narsimha Rao	Part Time
14.	1781033	J Mohan	Part Time

New Research Guides

Sl.No	Name of the Guide	Specilization
1	Dr.P.Polu Raju	Structural Engineering
2	Dr. Sanjeet Kumar	WRE
3	Dr.Sunil Ranjan Mohapatra	GTE
4	Dr.Dinesh Singh	Geo-spatial Technology

C) PLACEMENTS

S.No	Regd No	Name of the students	Name of the company
1.	13002088	Ala Venkatesh	Everest
2.	13002146	G.Rajesh	
3.	13002024	D.Sugun Kumar	
4.	13002156	K.Naga Sai Gopal	
5.	13002113	Ch.Sai Prakash	

D) CONSULTANCY WORKS

Consultancy Tests Conducted In Our Department for Different Clients from the Period April 2017 to June 2017

S. No.	Date	Name of the Client	Tests
1	06-05-2017	G&J Infra	Cubes
2	06-05-2017	V.Jayaram	BM, BC & Mix Designs
3	06-06-2017	United Construction	Cubes

4	07-06-2017	United Construction	Cubes
5	07-06-2017	United Construction	Cubes
6	07-06-2017	Gopal Teknocon pvt ltd	Cement
7	07-06-2017	Prajaskthi Sahithi Samstha	water
8	09-06-2017	APEWIDC	Materials
9	13-06-2017	SEW Infrastructure	Soil
10	14-06-2017	Megha Engineers	cubes
11	15-06-2017	K.B Bhavan	water
12	21-06-2017	Samurudhi Construction	Cubes
13	22-06-2017	Siri Builders	Cubes
14	23-06-2017	SEPL	Ballast
15	23-06-2017	SEPL	Ballast
16	23-06-2017	SEPL	Ballast
17	23-06-2017	SEPL	Ballast
18	23-06-2017	RWS& Sub Division	steel
19	24-06-2017	United Construction	Cubes
20	24-06-2017	G&J Infra	Cubes
21	27-06-2017	Megha Engineering	Cubes
22	28-06-2017	G&J Infra	Cubes

E) ACADEMIC STAFF COLLEGE ACTIVITIES

The Department of civil engineering organized a two refresher course from 27.06.2017 to 30.06.2017 on orientation towards preparation of course handout by Dr.P.Polu Raju and question bank and orientation towards the usage ETABS software by Mr.G. Sri Harsha.

The first refresher course started by Dr.P.Polu Raju discussing members with introduction to Blooms Taxonomy and how to align the BTL with courses. Later the overview of session plan and evaluation was explained. The session has extended to the members with hands on experience preparation of sample course handouts and question paper preparation and later vetting of the sample course handouts and question papers were done.

The second day refresher course was by Mr. G. Sri Harsha on orientation towards the usage of ETABS Software, The resource person delivered session on comparison of ETABS Software and other design software. He also explained about the usage of commands in the analysis and design of the structures. Later the participants were given the opportunity to have hands on preparation of individual plan, how to draw the plan using ETABS Software and application of various loads on the structure.

The learning outcomes of the refresher courses are

1. Understood the various levels of Blooms Taxonomy
2. Helped the participants to dive the course
3. Helped the participants to prepare the question bank according to the blooms taxonomy
4. Able to understand the various advantages of the software
5. Able to analyse and design the structures using software



Mr. G. Sri Harsha delivering the session on ETABS