



## METHODIST

### COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

Estd : 2008 Address : KingKoti Road, Abids, Hyderabad, Telangana, 500001 | Email : principal@methodist.edu.in

#### DEPARTMENT OF CIVIL ENGINEERING

##### VISION

To evolve into a centre of excellence for imparting holistic civil engineering education contributing towards sustainable development of the society.

##### MISSION

- M1.** To impart quality civil engineering education blended with contemporary and interdisciplinary skills.
- M2.** To provide enhanced learning facilities and professional collaborations to impart a culture of continuous learning.
- M3.** To involve in trainings and activities on communication skills, teamwork, professional ethics, environmental protection and sustainable development.

##### PROGRAM EDUCATIONAL OBJECTIVES

Within three to five years of graduation, the Civil Engineering B.E. graduates are expected to:

- PEO 1:** Engage in planning, analysis, design, construction, operation and maintenance of built environment.
- PEO 2:** Apply the knowledge of civil engineering to pursue research or to engage in professional practice.
- PEO 3:** Work effectively as individuals and as team members in multidisciplinary projects with organizational and communication skills.
- PEO 4:** Demonstrate the spirit of lifelong learning and career enhancement aligned to professional and societal needs.

##### PROGRAM OUTCOMES

- PO1** Engineering knowledge
- PO2** Problem Analysis
- PO3** Design/development of solutions
- PO4** Conduct investigations of complex problems
- PO5** Modern Tool Usage
- PO6** The engineer and society
- PO7** Environment & sustainability
- PO8** Ethics
- PO9** Individual and Team work
- PO10** Communication
- PO11** Project Management and Finance
- PO12** Life-long Learning

##### PROGRAM SPECIFIC OUTCOMES

- PSO 1:** Investigate properties of traditional and latest construction materials using standard testing methods.
- PSO 2:** Use AutoCAD, STAAD Pro, ETABS, Revit Architecture and ANSYS software for computer aided structural analysis and design.
- PSO 3:** Describe the principles of sustainable development and green buildings for environmental preservation.

# CIVIL TIMES

DEPARTMENT OF CIVIL ENGINEERING



Department Newsletter

June 2019

### In Focus: KALESHWARAM IRRIGATION PROJECT

Kaleshwaram project is a lift irrigation project which is built across Godavari river this project main theme is to supply of drinking water and irrigation usage. This project is aimed to irrigate 18.25lakhs acres of new layout. this is the world's highest lift irrigation project, which lifts up to 150m high in single pumping. This project comprises of lifts, pressure mains, gravity canals, barrages etc; It will provide drinking water & irrigation supply for 20 of 31 districts in Telangana apart from Hyderabad & Secunderabad. This project length is approximately 1832km with 1531km of total gravity canal, it contains 203km of total tunnel length pressure pipes of length 98km. total number of lifts 20& total number of pumps houses 120 power pipes requirement for every 2 TMC is 5.512 MW for 3 TMC 7700MW. Live storage is 147.71 TMC and highest pump capacity 139MW for per day 2 TMC water be lifted high power consumption scheme requires about 7.7 giga watts.



### Editorial Board:

#### Chief:

Dr. Akshay S.K Naidu,  
Professor & Head, CED,  
MCET

#### Editorial Board

#### Members (Faculty):

Mr. R. Srikanth,  
Assistant Professor

Mrs. M. Mary Soujanya,  
Assistant Professor

#### Editorial Board

#### Members (Students)

Ms Madina Sundus  
Mr. G Sree Charith  
Mr. M Uday Kumar  
Mr. M Anil Kumar  
Ms. K.Mounika

## Faculty Contributions

- **Akshay S K Naidu** and Vinay Pittala (2018), “Influence of Piezoelectric Parameters on Admittance Diagnostic Signals for Structural Health Monitoring: A Numerical Study,” International Journal of Materials and Structural Integrity, Inderscience Journal, Vol. 12, No. 4, pg. 316-328 (**Peer Reviewed - Scopus Indexed Journal**). <http://dx.doi.org/10.1504/IJMSI.2018.10017012>
- **Akshay S. K. Naidu** (2018), “Electromechanical Admittance Signature Analysis of Piezoceramic Transducers for NDE,” Materials Today: Proceedings, Volume 5, Issue 9, Part 3, pg. 19933-19943, Elsevier Publications. (**Peer reviewed - WoS & Scopus Indexed Journal**). <https://doi.org/10.1016/j.matpr.2018.06.359>
- **Shaista Begum** and Mohd. Waleed Hassan Ansari (2018), “Mechanical Properties of Recycled Aggregate Concrete Using Gentionite and Robo Sand - An Experimental Study,” IJRET- e sat journal
- **Mohammed Hidayatullah**, Firdous Jehan, Mohammed Arbaaz and **Akshay S K Naidu** (2018), “Possible Use of Bamboo as a Sustainable Building Material,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue, pg. 168-171.
- **C. Chandana Priya**, M V Seshagiri Rao and V Srinivasa Reddy (2018), “Studies on Durability Properties of High Strength Self Compacting Concrete,” International Journal of Civil Engineering & Technology (IJCIET), volume 9, Issue 11, November 2018, pp. 2218-2225, ISSN Print: 0976-6308 and ISSN online: 0976-6316; Journal Impact Factor (2016): 9.7820
- **Shaista Begum** and Abrar Ahmed (2018), “Building with outriggers, watertank and combination as dampers comparative study of wind and seismic analysis on plane,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.
- **Y. Ram Kiran**, Sk. Md. Imran, R. Srikanth, Keith Thomas, D. Bharath Naik (2018), “Study on Uplift Capacity of Bell-Shaped Anchor Embedded in Soil Using Abaqus,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.

- **Dr. K. Santosh Kumar**, Renikunta Srikanth and Shaga Archana (2018), “Geospatial Technology for Micro Level Planning of Villages: A Case Study of Hasanparthy Mandal, Warangal Urban District, Telangana, India,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.
- **Shaik Mohd. Imran**, Renikunta Srikanth, Dr.K. Santosh Kumar, “Environmental Planning for Disaster Management by Using GIS - An Overview,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.
- **V. Venkata Vijaya Kumar**, H.Siddhartha, K. Uday Sree, K.Sumanth, “Command Area Development Using Artificial Recharge System - A Practical Case Study,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.
- **Bhavani Shankar Balla** and **Bharath Naik D** (2018), “Impact evaluation of aggregate gradation and binder parameters on bituminous mix rutting,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.
- **Shaista Begum** and Mohd. Shahed Ali (2018), “Mechanical properties of M30 grade concrete using blast furnace aggregate - an experimental study,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.
- S. Vijaya Kumar, **B.L.P. Swami**, **S. Suganya** and **C. Chandana priya** (2018), “Recent developments in fibrous self-compacting concrete - a review,” Grenze International Journal of Engineering and Technology, Vol. 34, Special Issue.

**Mr. Abdul Haneef Khan (160714732002)**, passed out student of 2014-2018 batch, secured University 7<sup>th</sup> Rank in the overall ranking of 4-year performance in the Osmania University examinations.

