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SKCETR@CE is a Sri Krishna College of Engineering and Technology Civil Engineering Department Research Bulletin which emphasizes the major research news, various research activities and achievements happened in Civil Engineering Department in the proceeding quarterly year. This Quarter issue highlights the research activities during November 2017 – January 2018.

The faculty and students were actively involved in various research activities in various disciplines of Civil Engineering. The Department has well equipped laboratories for all disciplines to support the curriculum syllabi and promote research and consultancy. The faculty members are also engaged in various consultancy activities.

The research in the department was highly focused on the current problems like utilization of waste materials, solution for traffic congestion, controlling / reducing pollution, optimizing water usage, Soil stabilization etc.

Civil Engineering Department is aiming to partnering with multi disciplinary researchers and industry in the development, demonstration, evaluation, and deployment of new technologies and analysis tools in Civil Engineering.

Publications

International Journals

1. **Prabhath Ranjan Kumar Soda, V. Poornima, R. Venkatasubramani and V. Sreevidya**, “Influence of Ureolytic Bacteria in Improving Performance Characteristics of Concrete”, Ecology, Environment and Conservation 2017, 23 pp. 57–63. (*SCOPUS INDEXED*)
2. **Dr. D. Maruthachalam, Mr. S.C. Boopalan and B.G.Vishnuram**, “Chloride Ion Permeability Studies of Fibre Based High Performance Concrete”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), 2017, 4(22), pp. 28–32.
3. **Ms. Preethi Gopalakrishnan and S.Vaishnavi Devi**, “Synthesis and Characterisation of Activated Carbon Coated with Nano Zinc Oxide –Photocatalyst from Paper Sludge”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), 2017, 4(22), pp. 37–41.
4. **S.M. Sivasankar, D. Maruthachalam, S.Venkatesh**, “Study on Corrosion of Reinforced Concrete Beams with Fly Ash and glass Fiber Reinforced Polymer”, 2017, 10(14), pp. 281-286.

International conference on Recent Advances in Engineering and Technologies (ICRAET 2017)

Sri Krishna College of Engineering and Technology organize an **International conference on Recent Advances in Engineering and Technologies (ICRAET 2017)** during 28 & 29 December 2017. In Civil Engineering discipline 27 research papers from various reputed Institutions were presented in three sessions.

Thirteen papers from SKCET Civil Engineering Department faculty were presented in the conference.

- **Dr. D. Maruthachalam and E.Nilsimha**, Development and Investigation on Self-Curing Concrete Using Natural Fibre
- **Dr. R. Elangovan and DL.Venkatesh Babu**, Studies on Ultra High Strength Self Compacting Concrete
- **Dr. P. Saravanakumar and S.Praveenkumar**, Experimental Studies on Mineral Admixed Geopolymer Recycled Aggregate Concrete
- **Dr. J. Thaarrini and R. Venkatasubramani**, Statistical Modelling For Strength Prediction of Geopolymer Concrete Blocks by Constructing Ols Equations

- **Mr. V. Mithun**, Schedule Performance Analysis Using Earned Schedule Method
- **Dr. D. Maruthachalam, Mr. S.C. Boopalan and B.G.Vishnuram**, Chloride Ion Permeability Studies of Fibre Based High Performance Concrete
- **Ms. K. Divya Darshini, C. Prakash, G. Vigneshwaran and R. Ruban Raj**, Review Paper on Domestic Wastewater Treatment Methods and Proposal of Aqua Recuperation Process
- **Ms. R. Archana**, A Case Study on Analysis Underground Water Quality in Coimbatore District, Tamilnadu, India
- **Mr. A. Jesudass**, Urban green space and well being -A review
- **Mr. R. Vignesh**, An Investigational Study on Metakaolin Amended Bio Concrete
- **Mr. S. Prabhath Ranjan Kumar**, An Insight into Strength and Durability of Bioconcrete
- **Ms. S. Vaishnavi Devi and Ms. Preethi Gopalakrishnan**, Effects of Delay and Cost Overrun at Multi-Storey Projects in Tamilnadu
- **Ms. Preethi Gopalakrishnan and Ms. S. Vaishnavi Devi**, Synthesis and Characterisation of Activated Carbon Coated

with Nano Zinc Oxide –Photocatalyst from Paper Sludge

Project Proposals Submitted / Approved

Science and Engineering Research Board (SERB) - DST

National Level Two Day Workshop on “Green Technology for Sustainable Development” - Dr.P.Saravanakumar and Dr.J.Tharrini. **(Approved)**

AICTE

AICTE Sponsered Two Week Faculty Development Programme on “Structural Stability Assessment for Repair and Upgrading of Structures” Dr.P.Saravanakumar.

AICTE Sponsered Two days Short Term Training Program on “Challenges, Initiatives and Recent trends of Nano Technology in Engineering disciplines” Dr.J.Tharrini.

Conference / Seminar / Workshop Participated / Presented

Ms.G.Preethi, Ms.S.Vaishnavi Devi and Mr.Prabhath Ranjan Kumar attended Two days Workshop on Total station and its application

on 10.11.17 & 11.11.17 at SKCT in association with Lawrence and Mayo.

Ms.K.Archana and Mr.V.Mithun attended One day Workshop on Master trainer on e-Governance systems sponsored by AICTE on 18.11.17 at SKCET.



Ms.G.Preethi, Ms.S.Vaishnavi Devi and Mr.Prabhath Ranjan Kumar attended Two days Workshop on Total station and its application

Consultancy works

The Department is actively engaged in undertaking Consultancy works in the areas of Water quality testing in Environmental Engineering Laboratory, Materials testing in Concrete and Highway Laboratory and Soil Laboratory & Design works in Computer Laboratory.

Research supervisor

- **Dr.D.Maruthachalam** – Anna University
- **Dr.P.Saravanakumar** – Anna University, SASTRA University
- **Dr.J.Tharrini** – Anna University

Professional Body Members

Dr.D.Maruthachalam

- Institution of Engineers
- Life Member of ISTE (MISTE)
- Association of Consulting Civil Engineers [MACCE(I)]
- Member in American Concrete Institute (ACI)

Dr.Elangovan

- The Institution of Engineers
- Institution of Valuers
- Indian Concrete Institute
- Indian Society for Technical Education (ISTE)

Dr.P.Saravanakumar

- Indian Geotechnical Society (IGS)
- International Association of Engineers (IAENG)

Dr.J.Tharrini

- International Association of Engineers (IAENG)
- Indian Society for Technical Education (ISTE)
- Universal Association of Civil, Structural and Environmental Engineers (UACSE)

S.C.Boobalan

- International Association of Engineers (IAENG)

K.Divya Dharshini

- Indian Geotechnical Society (IGS)

R.Vighnesh

- The Institution of Engineers

S.Prabhath Ranjan Kumar

- The Institution of Engineers

Editors / Reviewers to Journals

Dr.D.Maruthachalam

- Journal of Earth and Environmental Sciences
- Case Studies in Construction Materials

Dr.Elangovan

- International Journal of Applied Engineering Research (IJAER)

Dr.P.Saravanakumar

- ACI Structural and Materials Journals
- Construction & Building Materials
- Case Studies in Construction Materials
- Materials and Design
- International Journal of Concrete Structures
- Resources, Conservation & Recycling
- Open Access Library Journal (OALib Journal)
- Computers and Concrete, An International Journal – Techno-Press

Dr.J.Tharrini

- KSCE Journal of Civil Engineering
- Construction & Building Materials



**Smt.S.Malarvizhi,
Chairperson& Managing Trustee**



Dr.K.Sundararaman,CEO



Dr.J.Janet, Principal



EDITORIAL BOARD

Dr. D. Maruthachalam

Dr. P. Saravanakumar

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