

SKCET R@CE is a Half yearly Civil Engineering Department Research Bulletin of Sri Krishna College of Engineering and Technology, Coimbatore. The main objective of this bulletin is to share innovative achievements and practical experiences of Civil Engineering Faculty from diverse domains which will motivate the students as well as the Faculty members to contribute more to the Society in terms of meaningful solutions to the prevailing problems in the field of Civil Engineering..

This issue of SKCET R@CE - Research Bulletin emphasizes the various research activities and achievements carried out by the Civil Engineering faculty and students in the proceeding half year June 2019 – December 2019.

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VISION AND MISSION OF THE INSTITUTE

VISION

To produce globally competitive engineers with high ethical values and social responsibilities.

MISSION

- *To impart highest quality state-of-the-art technical education by providing impetus to innovation, Research and Development and empowering students with Entrepreneurship skills.*
- *To instill ethical values, imbibe a sense of social responsibility and strive for societal wellbeing.*
- *To identify needs of society and offer sustainable solutions through outreach programs.*

VISION AND MISSION OF THE DEPARTMENT

VISION

To be a Center of Excellence in Civil Engineering Education through full-fledged learning experience along with research.

MISSION

To accomplish our vision, we are committed to

- *Provide high quality technical education for Undergraduate, Post Graduate and Doctoral Programmes in Civil Engineering.*
- *Create excellent infrastructural facility and state-of-the-art Laboratories.*
- *Encourage faculty and students to carry out socially relevant research through collaboration with industry.*
- *Inculcate ethics and ensure commitment to the society with leadership qualities.*

***Publications
(WoS / SCOPUS Indexed
Journals)***

- Saravanakumar P, “Applications of Sustainable materials in Concrete – A short review”, Indian Journal of Science and Technology. 2019 – 12 (25). **(WoS)**
- Maruthachalam D, Boobalan S.C, Muthukrishnan V, “Experimental Investigation on Hybrid Fibre Reinforced Concrete with Polyethylene Terephthalate and Steel Fibre”, Indian Journal of Science and Technology, 2019 – 12 (29). **(WoS)**
- Thaarrini J, Premsudha R, Chris sheba, “An Experimental Study on Recovery of Energy from Biodegradable Waste with Eichhornia Crassipes in TKRCET, Hyderabad, Telangana”, Indian Journal of Science and Technology, 2019 – 12 (29). **(WoS)**
- Sugunadevi M, Jayashree Natchiyar K, Dhivya J, Arashvardhini A.S, “Experimental Research on the behaviour of concrete containing waste plastic granules as a fine aggregate replacement”, International Journal of innovative Technology and Exploring Engineering, 2019 - 8(10), pp. 1427 -1430. **(SCOPUS)**.
- Yogeshwaran V, Thamilselvan R.P, Divya Dharshini and Vignathirishaa, “Membrane Process and Graphene Nano-Particles in water treatment”, International Journal of innovative Technology and Exploring Engineering, 2019 - 8(10), pp. 1431 - 1435. **(SCOPUS)**.
- Elangovan R, “Strength Properties of Fibre Reinforced Self Consolidating Concrete with Foundry Waste Sand”, International Journal of innovative Technology and Exploring Engineering, 2019 - 8(10), pp. 1530 -1538. **(SCOPUS)**.
- Prabhath Ranjan Kumar S, Vighnesh R and Maiyuri S published a paper "Self-Healing of micro cracks in linings of irrigation canal using coir fiber reinforced bio-concrete" in International Journal of Innovative Technology and Exploring Engineering, 2019 – 8 (11), pp. 3275 -3277 **(SCOPUS)**.
- Yogeshwaran V and Priya A.K, “Treatment of fish Processing Industrial Waste Water Using Immobilized Jacketed Column Reactor”, International Journal of Engineering and Advanced Technology (IJEAT). *(Accepted for Publication)* **(SCOPUS)**.
- Sadheesh S, Arun prasath S K, “GIS Based Assessment of Water Quality in Periyakulam Lake of Coimbatore City”, Indian Journal of Environmental Protection. *(Accepted for Publication)* **(SCOPUS)**.
- Saravanakumar P and Praveenkumar R, “Behaviour Of Strengthened Masonry Arches With Steel Reinforced Grout”, International

Journal of Scientific & Technology Research.
(Accepted for Publication) (SCOPUS).

Project Proposals Submitted / Approved

Dr. P. Saravanakumar Submitted a Faculty Development Proposal on “Structural Assessment, Repair and Rehabilitation of Structures” to AICTE under the AICTE Quality Improvement Schemes - AQIS.

MOOC Certification courses

The following faculty members completed a course under NPTEL Certification

Dr. R. Elangovan

Mr. S.C. Boobalan

Mr. S. Prabhath Ranjan Kumar

Ms. M.Sugunadevi

Mr. S. Sadheesh

Mr. M.R. Ezhil kumar

The following faculty members completed a course under COURSERA Certification

Ms. G. Preethi

The following faculty members completed a course under ALISON Certification

Mr. V. Yogeshwaran

Ms. M. Sugunadevi

Mr. S.C. Boobalan

Students Research Outcome

Civil Engineering students were participated and won prizes in various research competitions held in various Universities and Colleges all over the India.

- Civil Engineering Final Year Students Mr. M. Sathasivam and C.U. Lavanya team won first prize (Rs. 15000/- and award) in Talent search Quiz competition 2019 conducted by COCENA 9Coimbatore Civil Engineers Association).

- Civil Engineering Final Year Students team Mr. M. Sathasivam, Mr. C. Mukesh, Ms. V. Yogeshwari, Ms. S. Shanmugapriya participated the grand finale of Smart India Hackathon Hardware Edition 2019 at IIT, Kanpur - mentored by Ms. G. Preethi, Assistant Professor, for the problem statement proposed by MSME during 8th - 12th July 2019.

- Civil Engineering Final Year Students team Mr. Yuvaraj participated the grand finale of Smart India Hackathon Hardware Edition 2019 at VelTech, Chennai - mentored by Dr.J.Thaarini, Associate Professor, for the problem statement proposed by MSME during 8th -12th July 2019.

- Civil Engineering Final Year students Mr., Mr. K. Ashwin, Mr. T.S. Aravind, Ms. C.U. Lavanya and Ms. K. Jayashree, mentored by Mr. R. Vighnesh and Mr. S.C. Boobalan Assistant Professor, got selected for the National level

student Competition 2019-2020, conducted by INSDAG, Ministry of Steel, Government of India on Feb 14 and 15 at Kolkata.

- Five Civil engineering students Mr. P. Dhinesh Kumar, Mr. M. Sathasivam, Ms. S.S. Yogeswari, Ms. C. Srividhya and Mr. B.K. Aadhis have got free Internship training and placement program in ELEATION, Pune.

Conference / Seminar / Workshop Organized

- Civil Engineering Department in association with Research & Innovation Cell organised a webinar on “Advancements in STAAD.Pro - Connect Edition” on November 28, 2019. It mainly aims the students to create physical models to enable simple digital workflows and improvise the interoperability performance of the work.

Conference / Seminar / Workshop Participated / Presented

- Dr. P. Saravanakumar presented a paper on “An Enhanced Method of Communication System for Institutions”, in International conference on Transforming Academic Libraries: Vision 2030 (ICTAL 2030) during November 14 – 16 2019 at Sri Krishna College of Engineering and Technology.

- MS. M. Sugunadevi presented a paper on “Sustainable Stabilization of Subgrade Using Coir Fibres For Pavement Construction”, in International conference on Transforming Academic Libraries: Vision 2030 (ICTAL 2030) during November 14 – 16 2019 at Sri Krishna College of Engineering and Technology.

Consultancy Works

The Department is actively engaged in undertaking Consultancy works in the areas of Water quality testing, Construction materials testing, Soil testing Surveying and Design works. Apart from above consultancy activities the department also rendered consultancy in social related activities

Research Supervisor

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

Faculty Pursuing Ph.D.

- Mr. V.Yogeshwaran
- Mr. Ezhil Kumar
- Mr. A. Jesudass
- Mr. R. Vighnesh
- Mr. S. Prabhath Ranjan Kumar
- Mr. S. C. Boobalan

- Mr. S. Sadheesh
- Ms. G. Preethi

Honors Awards & Recognition

- Dr. P. Saravanakumar, Mr. S.C. Boobalan and Mr. V. Yogeswaran were elected as Executive Committee Member in Institute for Engineering Research and Publication (IFERP).

Professional Body Members

Dr. D. Maruthachalam

- Institution of Engineers
- Indian Society for Technical Education
- Association of Consulting Civil Engineers (I)
- Indian Concrete Institute

Dr. R. Elangovan

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

Dr. P. Saravanakumar

- American Concrete Institute
- Indian Geotechnical Society
- International Association of Engineers
- National Information Centre of Earthquake Engineering (NICEE), IIT (K).
- Institute for Engineering Research and Publication (IFERP)

Dr. J. Thaarrini

- National Information Centre of Earthquake Engineering (NICEE), IIT (K).

- International Association of Engineers
- Indian Society for Technical Education
- Universal Association of Civil, Structural and Environmental Engineers

Mr. S.C. Boobalan

- American Concrete Institute
- International Association of Engineers
- International Society of Research and Development
- Institute of Research Engineers and Doctor
- National Information Centre of Earthquake Engineering (NICEE), IIT (K).
- Institute for Engineering Research and Publication (IFERP)

Mr. M.R. Ezhil Kumar

- International Association of Engineers
- National Information Centre of Earthquake Engineering
- Associate of the International Safety Quality Environment Management Association
- Asia-Pacific Chemical, Biological & Environmental Engineering Society
- Institute for Engineering Research and Publication (IFERP)

Mr. A. Jesudass

- American Concrete Institute
- International Association of Engineers
- International Society of Research and Development

Mr. R. Vighnesh

- American Concrete Institute
- The Institution of Engineers
- Institute of Research Engineers and Doctors
- National Information Centre of Earthquake Engineering (NICEE), IIT (K).

Mr. S. Prabhath Ranjan Kumar

- American Concrete Institute
- The Institution of Engineers

Ms. G. Preethi

- International Association of Engineers
- International Research for Doctors and Engineers
- International Society of Research and Development
- Institute of Research Engineers and Doctors
- National Information Centre of Earthquake Engineering (NICEE), IIT (K).
- Institute for Engineering Research and Publication (IFERP)

Ms. S. Vaishnavi Devi

- International Association of Engineers
- International Research for Doctors and Engineers
- Indian Value Engineering Society
- Engineering Council of India
- International Association of Educators and Researchers
- Institute for Engineering Research and Publication (IFERP)

Mr. V. Yogeshwaran

- American Concrete Institute
- International Society of Research and Development
- International Association of Engineers
- Institute of Research Engineers and Doctors
- Institute for Engineering Research and Publication (IFERP)

Mr. S. Sadheesh

- American Concrete Institute
- International Association of Engineers
- International Society of Research and Development
- Institute of Research Engineers and Doctors

Ms. M. Sugunadevi

- Indian Geotechnical Society
- International Society of Research and Development
- Institute of Research Engineers and Doctors
- International Association of Engineers
- Institute for Engineering Research and Publications (IFERP)

Editors /Reviewers to Journals**Dr. D. Maruthachalam**

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

Dr. P. Saravanakumar

- ACI Structural and Materials Journals

- Construction & Building Materials
- Case Studies in Construction Materials
- Materials and Design
- Computers and Concrete, An International Journal – Techno-Press
- Heliyon – Elsevier Journal
- Resources, Conservation & Recycling
- Open Access Library Journal
- International Journal of Concrete Structures
International Journal of Civil Engineering

Dr. R. Elangovan

- International Journal of Applied Engineering Research (IAER)

Dr. J. Thaarrini

- KSCE Journal of Civil Engineering
- Construction & Building Materials



Dr. R. Elangovan, Associate Professor in Civil Engineering Department, imparted great knowledge in Structural Engineering to young people through mentoring and teaching. He handled various positions in the department like Dept. NBA coordinator, PMKVY coordinator, Cluster head for structural engineering etc.

**EDITORIAL BOARD*****Dr. D. Maruthachalam******Dr. P. Saravanakumar****Department of Civil Engineering, SKCET*