

*"Ask the right questions, and
nature will open the doors to her
secrets."*

C.V. Raman



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SKCET R@CE is a half yearly Civil Engineering Department Research Bulletin of Sri Krishna College of Engineering and Technology, Coimbatore. SKCET R@CE - Research Bulletin proudly steps into second year. This bulletin emphasizes the various research activities and achievements carried out by the faculty and students in the proceeding half year June 2018 – December 2018.

This bulletin provides a platform for Civil Engineering Department faculty and students to present their achievements and to encourage them for their active participation and presentation in research activities.

To perform the research in various Civil Engineering disciplines, the department has well equipped laboratories and faculty having high interest in research with experience and qualification. The Department's active research provides opportunities for students to actively participate in various projects and competitions.

Publications International Journals

SCOPUS INDEXED Journals

- Saravanakumar P, Manoj Prabhakar S, Nishanth D, Sujith K.S, “Strength Characteristics of Ternary Blended Recycled Aggregate Concrete”, International Journal of Civil Engineering & Technology, 2018 – 9(9) pp. 1083-1092.
- Sathasivam M, Tharrini J, Sarathkumar R, Sanjay Kumaran S.J, “A review on Cavitation Analysis in pipes, International Journal of Civil Engineering & Technology, 2018 – 9(10) pp. 1231-1238.
- Sugunadevi M and Jayapriya S.P, “Experimental Study on Piles with Pile Cap at Varying Position under Different Loading Conditions - International Journal of Engineering and Advanced Technology (IJEAT), 2018 – 8 (2), pp. 79 – 83.
- Vaishnavi Devi S and Vignesh D, “Public Transportation Management Strategy for Temple City”, International Journal of Engineering and Advanced Technology (IJEAT), 2018 – 8 (2), pp. 163 -167.
- Maruthachalam D, Sugunadevi M, Sowmiya A.B and Sushmithaa P, “Investigation of Corrosion Damage and Repair system to Strengthen the Critical Infrastructure” -

International Journal of Engineering and Advanced Technology (IJEAT), 2018 – 8 (2), pp. 215 -220.

- Yogeshwaran V and Priya A.K, “Removal of heavy metals using nano-particles - A review”, Indian Journal of Environmental Protection, (Accepted for Publication).
- Sadheesh S and Kumar M, “Ambient Air Quality monitoring and Modelling in Coimbatore City” Indian Journal of Environmental Protection, (Accepted for Publication).

Books Published

Dr. D. Maruthachalam published a monograph book titled “Polyolefin Macro Monofilament Fibre Reinforced High Performance Concrete” – JPS Scientific Publications, India. ISBN: 978-81-935636-5-6.

Project Proposals Submitted / Approved

Dr. D. Maruthachalam and Dr. J. Tharrini presented their proposal on “Utilization of Caustic soda slurry in the development of Eco-friendly cost effective Geopolymer Blocks and Bricks” at Sentization Workshop conducted by DST under Waste Management Technologies Scheme. [DST File Number DST/TDT/WMT-3/6G/007]

Dr. R. Elangovan and Dr. D. Maruthachalam presented their proposal on “Utilization of Caustic soda slurry in the development of Eco-friendly cost

effective Geopolymer Blocks and Bricks” at Sentization Workshop conducted by DST under Waste Management Technologies Scheme.[DST File Number DST/TDT/WMT-3/6B/007]

Mr. V. Yogeshwaran and Dr. P. Saravanakumar submitted a proposal on "Experimental investigation of removal of toxic heavy metals present in the industrial wastewater using Graphene nano-adsorbents", to DST, Technology Mission Division (E & W), Government of India.

Ms. G. Preethi, Mr. S. Sadheesh and Ms. S. Vaishnavi Devi submitted a proposal on "Development of Microbiofuel cell for conversion of distillery industrial wastewater into electrical energy", to DST, Technology Mission Division (Energy & Water), Government of India

Dr. J. Thaarrini and Ms. S. Vaishnavi Devi submitted a proposal to AICTE for Six days Short Term Training Program on “Applications of Remote sensing in Soil and Ground water contamination assessment”

Proposal for Student Projects Scheme, TNSCST 2018-2019

Dr.P.Saravanakumar, M.Vignesh, G. Nivetha and B. Ragavisri, “Effect of Acidic Water on Strength and Durability Characteristics of High Performance Concrete”

Ms.G.Preethi, M.Annadurai and Aravindhan S, “Lab Scale Studies on Water Hyacinth (Eichhornia Crassipes Marts Solms) for Biotreatment of Laboratory Wastewater”

Mr.V.Yogeshwaran, Moun Karthik and Ramprasad, “Magnetic Nano-Particles in wastewater treatment”

Mr.S.Sadheesh, Poovarasana N And Sathish Kumar S, “Treatment of Leachate by Advanced Oxidation Process”.

Ms.M.Sugunadevi, Elangeshkumar, P. Jagadeesh, D. Venkatesan, “Stabilization of Clayey Soil Using Waste Plastic Material as an Additive”.

Certification courses

NPTEL Certification

Dr. R. Elangovan

Reinforced Concrete Road Bridges *Elite + Gold*

Mr. S.C. Boobalan

Concrete Technology *Elite*

Mr. S.Prabhath Ranjan Kumar

Leadership *Elite*

Ms. G. Preethi

Geoenvironmental Engineering *Elite*
Remotesensing and Digital Image Processing of Satellite Data *Elite*

Ms. S,Vaishnavi Devi

Technical English for Engineers *Elite*
Principles of Construction Management

Mr. V.Yogeswaran

Wastewater treatment and *Elite*
recycling

Mr. S. Sadheesh

Wastewater treatment and *Elite*
recycling

Ms. M.Sugunadevi

Foundation Engineering *Elite*

Coursera Certification

Mr. R.Vighnesh

Mastering Bitumen for better roads and
Innovative applications

EDX Certification

Mr. R.Vighnesh

Linear Algebra-Foundations to Frontiers
Sustainability in Architecture - An
Interdisciplinary Introduction

Mr. S.Prabhath Ranjan Kumar

Linear Algebra-Foundations to Frontiers

Mr. R.Vighnesh, and Ms. M.Sugunadevi
completed online module by Researcher Academy
- Elsevier "Research Writing"

Mr. S.C.Boobalan completed online module by
Researcher Academy - Elsevier "Fundamentals of
manuscript preparation".

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.

Mr. Moun Karthik, Mr. Karuppusamy and
Mr. Selvadurai, Third Year Civil Engineering
students has been selected for final round in
National award Competition for students 2017-
2018, conducted by INSDAG, Ministry of Steel,
Government of India.

Conference / Seminar / Workshop Organized

One day Workshop on "Total Station and GPS"
jointly organized by Lawrance and Mayo India
Pvt. Ltd. on June.13, 2018.

Hands-on Training on "Inorganic chemical
analysis using Flame Photometer" jointly
organized by Genesys Inc. on July 20, 2018.

Two days Workshop on "Facade Engineering" for
civil, Mechanical and Mechatronics Department
was jointly organized by Glass Academy and
NSDC on 17th & 18th Aug. 2018.

A hand on Training on "Bitumen Material Testing"
was jointly organized by CONCORD Instruments
on Aug. 31, 2018.

One day Workshop on "Non-Destructive Testing
Techniques" jointly organized by AIMIL Ltd. on
Sep. 6, 2018.

Bentley sponsored "Two days Training on STAAD
Pro Connect Edition" on Dec. 19th & 20th, 2018.

Conference / Seminar / Workshop Participated / Presented

- Mr.S.C.Boobalan and Ms. G. Preethi attended a Two days Workshop on “Soft skills – Faculty Enablement Programme” at Sri Krishna College of Engineering and Technology, Coimbatore during June 14 & 15, 2018
- Ms. G. Preethi, attended the One Day National Level Workshop on “Constructive Ideas For Better Management of Municipal Solid Waste” at Kongu Engg. College, Perundurai on Sep 28, 2018.
- Dr.J.Tharrini and Ms.M.Sugunadevi attended the Short Term Course on "Subsurface Construction and Maintenance using Geosynthetics" at Amrita School of Engineering, Coimbatore on Sep 29, 2018
- Mr.V. Yogeshwaran, attended Two days all India Seminar on “Advanced Techniques for Sustainable Solid Waste Management for Green India” sponsored by Institution of Engineers India, at Vellalar College of Engg. & Technology, Erode, during Oct 4 & 5, 2018.
- Mr.V. Yogeswaran, attended FDP on “Students – Fragile: Handle with care” at Sri Krishna College of Technology, Coimbatore, during Nov 9, 2018.

- Mr. S. Sadheesh participated in QIP Short Term Training program on “Membrane Technologies for Water and Wastewater Treatment (MTWWT-2018)” at IIT Madras during Nov 12 – 17, 2018.

- Ms. G. Preethi participated in QIP Short Term Training program on “Human Comfort and Indoor Air Quality” sponsored by AICTE at IIT Madras during Nov 20 – 25, 2018.

- Dr. P. Saravanakumar and Ms. S.Vaishnavi Devi attended AICTE - ISTE Sponsored one week short term course on “Smart Materials and Structures” held during Dec 03 - 08, 2018 at Thiagarajar College of Engineering, Madurai.

- Ms. M. Sugunadevi, attended one week STP on Managerial skills in coordination with NITTR-Chandigarh held during ---- at Sri Krishna College of Engineering and Technology, Coimbatore

- Dr. J.Tharrini participated in one week CEP on “Clean Technologies and Sustainable Development in Civil Engineering” organized by NIT Warangal under Technical Education QIP, during Dec 24 – 30, 2018.

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.

Department of Civil Engineering did a surveying consultancy to Police Department, Ooty on “Accident Investigation Study – Ooty to Burliar Stretch”

Kavin (IV Year) and Sathasivam (III Year) participated in “Information Survey from public people”, Sep 24 – 26, 2018, for Smart city Infrastructure Consultants.

Faculty Registered / Pursuing Ph.D.

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

Research Supervisor

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

Honors, Awards & Recognition

Dr. P. Saravanakumar received “*ELSEVIER Outstanding Contribution in Reviewing*”, certificate from Construction and Building Materials, Elsevier, Amsterdam, The Netherlands.

Dr. D. Maruthachalam selected as *Executive member* for the second term in *Indian Concrete Institute - Coimbatore Center*.

ACCE (I) and ACC Limited *Mentor Certification* to Dr. R. Elangovan, Dr. J. Tharrini, Mr. S.C. Boobalan and Mr. R. Vighnesh for mentoring students in ACC Cements CONCAST 360⁰ competition during September 2018

SWAYAM – *NPTEL Mentor Certification* was awarded to Mr.S.C. Boobalan and Mr. S.Prabhath Ranjan Kumar for mentoring students in NPTEL courses.

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.Sureshbabu

- Institution of Engineers
- Indian Society for Technical Education

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

Dr. J.Thaarrini

- National Information Centre for Earth Quake Engineering, 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 Doctors

Ms. K.Divya Dharshini

- Indian Geotechnical Society
- International Association of Engineers
- International Society of Research and Development

Ms. K.S. Priyanga

- International Association of Engineers
- International Society of Research and Development

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

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

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

Mr. V.Yogeshwaran

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

Mr. S.Sadheesh

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

Ms. M. Sugunadevi

- Indian Geotechnical Society
- International Society of Research and Development
- Institute of Research Engineers and Doctors

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

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

Dr. Elangovan

- International Journal of Applied Engineering Research (IJAER)

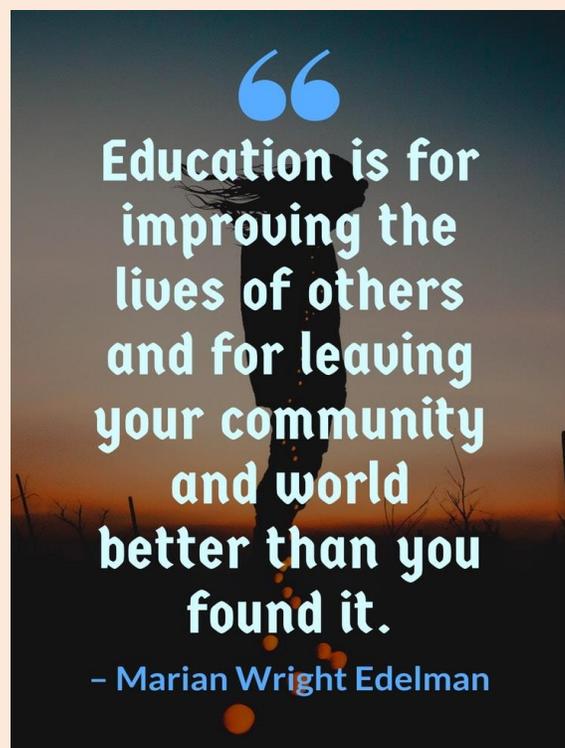
Dr. P.Saravanakumar

- 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
- 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, SKCET

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