



S.A. ENGINEERING COLLEGE

NBA Accredited & ISO 9001-2008 Certified Institution,
Affiliated to Anna University, Chennai

The Newsletter of

Civil Engineering

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About CE

The Department of Civil Engineering started during 2011-2012 with an aim of promoting high quality education in the field of Civil Engineering. The department presently having an intake of 120 students per batch and it has well equipped Laboratories. A demonstrated capability of the department is endorsed by the on-going sponsored and a curiosity driven research project besides consultancy works. Presently twenty one Dynamic, Experienced and committed faculty with more accountability is strength of the department. Besides this, State-of-the art equipment and different flavours of GIS & IMAGE Processing and structural engineering software are being exploited to inculcate professional skills. The core competency of the department is evidenced by the on-going research programmes sponsored by the various agencies like Ministry of Science and Technology, Government of India and Tamil Nadu State Council for Technical Education, Government of Tamil Nadu.

Vision

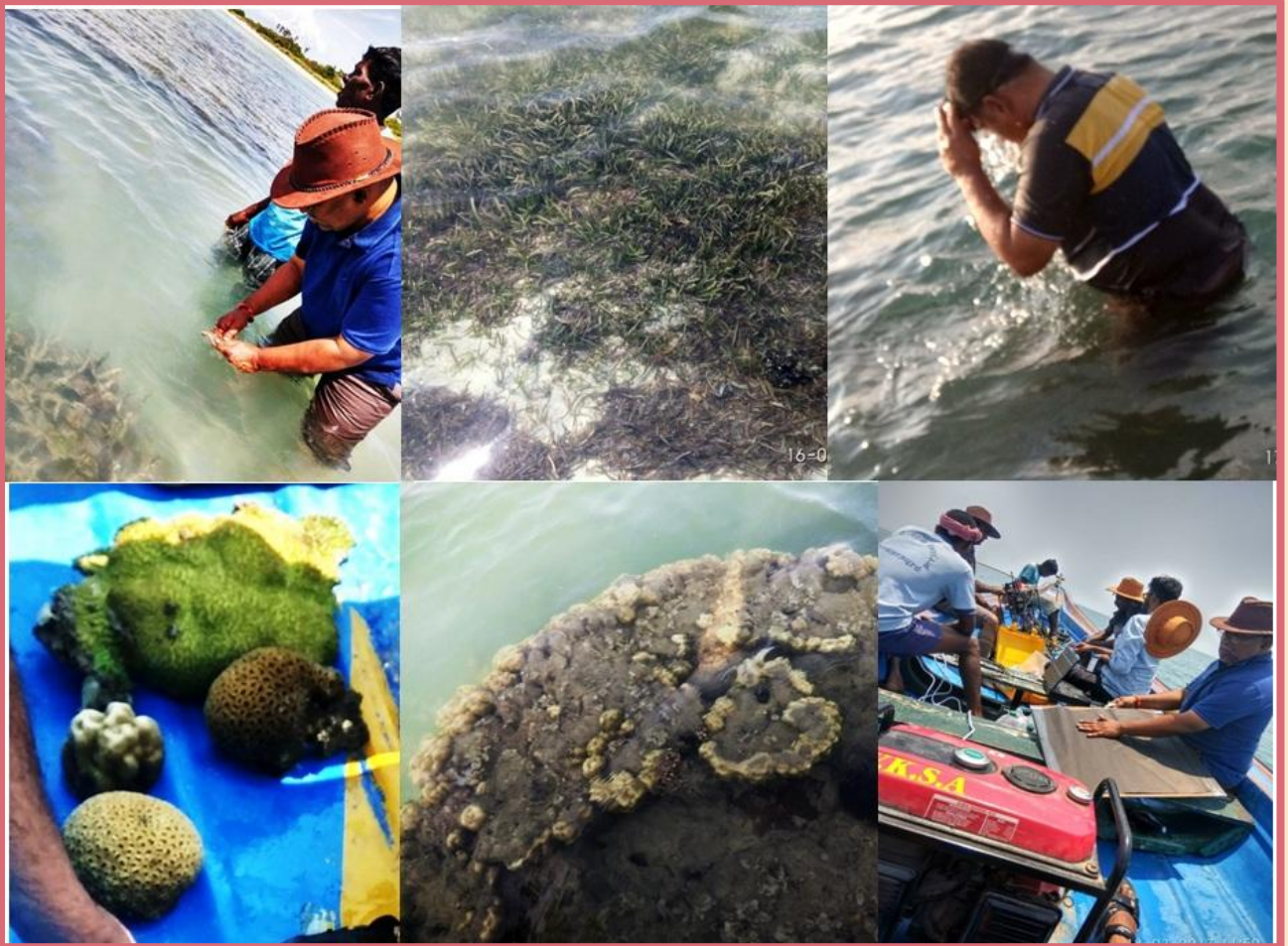
To be a centre of excellence in the field of Civil Engineering and to create the new technology for future requirements with the necessary knowledge, skills and attitudes of Civil Engineers who can be entrusted by the society to lead a sustainable world with enhanced quality of life.

Mission

- ❖ To prepare effective and responsible graduate engineers for global requirements by providing quality education.
- ❖ To constantly strive to improve pedagogical methods employed in delivering the academic programs.
- ❖ To impart sound technical competency to students according to the needs of the changing world.
- ❖ To conduct basic and applied research to enhance intellectual property.
- ❖ To provide consultancy to the neighbourhood and cultivate the spirit of entrepreneurship.

Research and Development

The current on-going research project titled “**Detection and Discrimination of Coral Reefs Using Hyper-Spectral Data**” under the scheme of Inter Disciplinary Cyber Physics System (ICPS) sponsored by Ministry of Science and Technology, Department of Science and Technology, Government of India and the amount was sanctioned **Rs.26,58,700/-** For this research work, **Dr.M.Thanikachalam** and his team members were currently working for Satellite Image Processing for which various satellite data (**Landsat-8, Sentinel-3A, Aqua MODIS & TERRA**) have been downloaded from various sources and processing was carried out with the help of **SEADAS software**. Meanwhile, spectra’s are simulated using Hydro light model.



List of MoU's Signed

- MoU is signed with **M/s. SAANVI STRUCTURAL SOLUTION, Chennai** on 31.10.2017 for the benefits of Placement and In-Plant Training to Students.
- MoU is signed with **M/s. CADD SCHOOL PRIVATE LTD, Chennai** on 31.10.2017 for the benefits of Software Training, Services and Placements.

List of Proposals Submitted

- **Dr.M.Thanikachalam** have Submitted a Research Proposal on “**Mapping of Mangrove Wetland Ecosystem using Hyper spectral Data**” to Natural Resources Data Management System (NRDMS) with a fund request of **Rs. 43, 86,500/-** on 13.10.2017.
- **Dr.M.Thanikachalam** have Submitted a Proposal for conducting National Workshop on “**Advances in Remote Sensing and GIS**” to Indian Space Research Organization (ISRO) with a fund request of **Rs. 1,00,000/-** on 01.11.2017.
- **Dr.M.Thanikachalam** have Submitted a Proposal for conducting National conference on “**Sustainable Development**” to Indian Space Research Organization (ISRO) with a fund request of **Rs. 1,30,000/-** on 01.11.2017.
- **Dr.M.Thanikachalam** have Submitted a Proposal for conducting Training Course on “**Advances in Remote Sensing and GIS**” to Natural Resources Data Management System (NRDMS) with a fund request of **Rs. 3,00,000/-** on 08.11.2017.
- **Dr.M.Thanikachalam** have Submitted a Proposal for conducting “**Capacity Building and Training on Geospatial Technologies**” to Natural Resources Data Management System (NRDMS) with a fund request of **Rs. 10, 00,000/-** on 15.11.2017.
- **Dr.M.Thanikachalam** have Submitted a Proposal for conducting Short term training programme on “**Recent Trends in Geospatial Technology**” to All India Council for Technical Education (AICTE) with a fund request of **Rs. 5,00,000/-** on 18.11.2017.
- **Dr.M.Thanikachalam** have Submitted a Proposal for the “**Modernization of Surveying and Geo-Informatics Laboratory**” to All India Council for Technical Education (AICTE) with a fund request of **Rs. 16, 73,165/-** on 18.11.2017.

List of Publications

- Dr.A.Chandran, “**Study on Concrete with Replacement of fine Aggregate using Foundry waste sand**”, International Journal of Advanced Research Engineering and Technology, September 2017.
- Dr.A.Chandran, “**Experimental study on behavior of Ligno-Cellulosic Fiber Reinforced Concrete**”, International Journal of IT & Engineering, September 2017.
- Dr.A.Chandran, “**Partial Replacement of Coarse Aggregate in Concrete by Waste Rubber Tube**”, International Journal of Engineering and Techniques, September 2017.

- Dr.M.Thanikachalam and S.K.Nimalan, **“Temporal Coastal Changes along Rameswaram Coast, Tamilnadu”**, International Journal of Advance Technology & Engineering Research, October 2017.
- Dr.M.Thanikachalam and S.K.Nimalan, **“Investigation of Coastal Landforms along the SouthEast Coast of India using Remote Sensing and GIS Techniques”**, International Journal of Remote Sensing and Geoscience, October 2017.
- K.R.Dheepan, S.Saranya and S.Aswini, **“Experimental study on Bubble Deck Slab using Polypropylene balls”**, International Journal of Engineering Development and Research, November 2017.
- S.P.Kanniyappan, S.Saravanakumar and T.Muthukumaran, **“Analyzing the Microstructural Properties of Nanomaterial in OPC by SEM,TEM, XRD and corrosion Rate by TAFEL Techniques”**, International Research Journal of Engineering and Technology (IRJET), October 2017.
- S.P.Kanniyappan and C.Lavanya, **“A Study on Physico-Mechanical and Electro-Chemical Behavior of Nano material in Ordinary Portland Cement”**, International Journal of Latest Engineering and Management Research (IJLEMR), October 2017.
- S.P.Kanniyappan, N.Rishinath and C.Lavanya, **“A Study on Spatial Changes of Groundwater using Statistical Method and Hydro-geochemical Facies in Cheyyar River Basin, Tamilnadu”**, International Journal of Emerging Science and Engineering (IJESE), November 2017.
- G.Dhanalakshmi, **“Experimental Investigation on Nano Silica in Concrete”**, International Journal Research in Applied Science & Engineering Technology (IJRASET), October 2017.
- G.Dhanalakshmi, **“Experimental Investigation on High Performance Concrete using various Fibers”**, International Journal of Advanced Engineering Research and Technology (IJAERT), October 2017.
- G.Dhanalakshmi, **“A Review on Self-Healing Concrete”**, International Journal of ChemTech Research, November 2017.
- S.Supriya, **“Analysis on Compressive Strength of Concrete using Special Radiometer: A Preliminary Study”**, International Research Journal of Engineering and Technology (IRJET), November 2017.

Workshops & Seminar's

- ✚ Dr.A.Chandran, D.Hemalatha, M.Vignesh and G.Dhanalakshmi have attended a Seminar on **“Geotechnics for Civil and Structural Engineers”** at VIT, Chennai on 07.10.2017.
- ✚ V.Vidya, N.Aarthi and S.P.Kanniyappan have attended a National Level Workshop on **“Sustainable Materials in Civil Engineering”**, at St.Joseph's Institute of Technology, OMR, Chennai on 09.11.2017.

- ✚ D.Hemalatha, G.VinothKanna, N.Aarthi, S.Mageswari, K.R.Dheepan and G.Dhanalakshmi has attended a two days National Seminar on “**Advances in Polymers and Plastics Applications in Engineering and Technology**” at S.A.Engineering College, Thiruverkadu, Chennai on 23.11.2017 & 24.11.2017.
- ✚ G.Dhanalakshmi, S.Saranya, S.Supriya, R.Rajanand, S.Saravanakumar & G.Vinoth kanna has attended a two days workshop on “**Corrosion Resistant Concrete**” at Rajalakshmi Engineering College, Poonamallee, Chennai on 29.11.2017 & 30.11.2017.

Student activities

- ❖ M.Gunasekar and S.P.Alagappan has presented a paper at Bannari Amman Institute of Technology Technical Symposium for three days from 07.09.2017 to 09.09.2017.
- ❖ S.Vijay, P.Dhinesh and R.Pravin has presented a paper at SRM Easwari Engineering College Technical Symposium on 13.09.2017.
- ❖ D.Swathi, B.Shanmuga Priya, B.R.Monika Lakshmi, R.Renju, V.Vishali Pragalya and A.Salma Begum have attended Workshop on 14.10.17 at SRM University, Kattangulathur Campus on Testing on Geo Reinforcement Material and Coconut Shell Concrete.

Placement activities

Our student K. Suresh Kumar from final year had placed in **JARO Education** with the annual package of **Rs. 4, 44,000/-** through the on campus recruitment.

ISTE Membership

S.P.Kanniyappan, T.Muthukumaran, M.Vignesh, V.Vima and J.Aswani had got Life Time Membership in **Indian Society for Technical Education (ISTE)**, New Delhi.

Editorial Board

Dr. A.CHANDRAN
Professor & Head/Civil

Mr. S.P.KANNIYAPPAN
Assistant Professor/Civil

Ms.G.DHANALAKSHMI
Assistant Professor/Civil