



## **CIVIL ENGINEERING NEWSLETTER**

**JAN & FEB 2019**



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# God's Desk

The achievements of Students and Faculty during these two months have instilled in me a great sense of satisfaction and I am happy with the way the Students have chosen the right path for their future career. Many of the students have won many laurels to the Department at National level events. Faculty have also taken their research front to the next level by publishing papers in reputed journals and guiding project works. I wish all success to everyone in the times to come.

- Dr.D.Maruthachalam





# About the Department

The Civil Engineering Department aims at developing analytical and experimental skills in students to apply in various fields of Civil Engineering using National and International codes. The department also provides an opportunity for students in improving supervision, communication and presentation skills, knowledge of software like Auto CAD, STAAD PRO and Rivet Architecture. The students have to undergo Industrial Training and visit live projects to gain practical knowledge and understanding of field constraints. The Civil Department has well qualified teaching faculty with industrial experience who are enthusiastic in imparting the quality teaching to the students. The emphasis is laid on proper understanding of the fundamentals of the subjects through animation, video clips and case studies. It has well equipped laboratories, computational facilities; modern class rooms and provides a good environment for learning. Many senior faculty members are also engaged in research and consultancy projects which benefit the students for active learning. The department also has its own library housing a good number of quality reference books for the benefit of staff and students. There are many Student chapters, Associations and clubs in the department to engage the students in co-curricular activities.



# Students' Achievements

T.Mounkarthik, R.Selvathurai and G.Karuppusamy of Final year Civil Engineering bagged the Third prize in National Level Students Competition “INSDAG 2017-2018” organized by Institute for Steel Development and Growth, Ministry of Steel and Government of India, Kolkatta on 15.2.19. They won a Cash award of Rs.20,000. The theme of the competition was steel intensive innovative Car service station.





M.Sadhasivam, S.Shanmugapriya and SS. Yogeswari of Third year Civil Engineering won the First place in “ Visai Project competition 2019” held at Veltech university, Chennai on 24.2.19. The theme was Clean Water and they placed the first position among 7 competitors from top most colleges in Tamilnadu like PSG, Amrita, VIT, VelTech and BIT.



T.S.Aravind, K.Ashwin and L.Jeyaprakash presented their project “Automatic Mortar mixer” under the Theme “Manufacturing”. Nearly 180 projects from various reputed Institutions like IITM, VIT, Veltech, PSG, Amrita university and Bannari were exhibited.



**T.Mounkarthik and J.Indhu** of Final year Civil Engineering represented IGS(Indian Geotechnical Society) chapter of our college and have won First prize in the Tech fest “IQSQFIESTA 2019” organized by Indian Geotechnical Society Coimbatore chapter at Dr.Mahalingam College of Engineering and Technology, Coimbatore .They received a cash award of Rs.5000.

- ✚ K.Jayashree won the First place and Cash award in Paper Presentation in HENOSIS'19 - National Technical Symposium at Dr.NGP Institute of Technology
- ✚ CU.Lavanya, S.Mayuri and V.Sreevidya won the First place and Cash award of Rs.3000 in the event Fire Safety at National Level Technical Symposium “Yugam” at Kumaraguru College of Technology, Coimbatore.
- ✚ CU.Lavanya, S.Mayuri and V.Sreevidya won the Second place and Cash award of Rs.2500 in the event Brick bonding at National Level Technical Symposium “Yugam” at Kumaraguru College of Technology, Coimbatore.



- ✚ Jayashree.K, Prabhakaran.V and Sadhasivam.M bagged the First place in the event Best Bidder held at PSGiTech and a cash award of Rs.3000.



- ✚ Yuvaraj .M and Vigneshkumar.SSK won the First place in the event Bridgeit held at PSGiTech and a cash award of Rs.3000.
- ✚ Pradeep.P and S. Ashok kumar of Third year Civil Engineering won Second prize in the same event
- ✚ Shanmugapriya.S, Mayuri.S, Sreevidya.V and Sadhasivam.M won the second place in Cube casting competition at Amrita University and won a cash award of Rs.5000.





- ✚ Nijanthan.S,Aravind.S and Sanjay.U bagged the First place in Squeeze it up event at Amrita University with a cash award of Rs.5000.
- ✚ S,Aravind.S and Sanjay.U bagged the First place in CAD Scamper event at Amrita University with a cash award of Rs.5000.
- ✚ G.Preethi won the First place in Poster presentation in the National Level Technical Symposium at CIT .
- ✚ Tharshinipriya bagged the second place in Town planning in the National Level Technical Symposium at CIT .
- ✚ S.Sowmiya won the first place in Surveying Event in the National Level Technical Symposium at CIT .
- ✚ Shankar R, Santhosh Kumar S, Sree ram S bagged the First place in Paper presentation at PANAROMA'19 – National Level Technical Symposium at SRIT. Aruneshwaran M, Deepak Chakaravarthy M R, Monish R won the Second place in the same event.
- ✚ Meena . K won the second place in CADD contest at HENOSIS'19 - National Level Technical Symposium at Dr.NGP Institute of Technology.



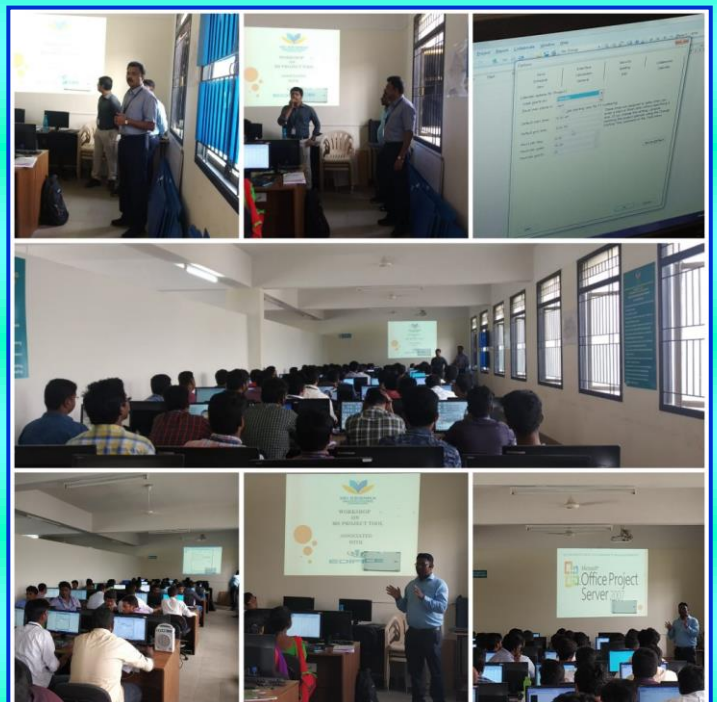
- ✚ Balaji R and Nikhil N Joshi bagged the First place in Ready to Daze event at Arkitekton'19 National Level Technical Symposium at P.A College of Engineering and Technology.
- ✚ Aadhis BK won the First place in the event CADD Manipulata at INFEST'2K19 - Info Institute of Engineering.
- ✚ Sathasivam .M, Praveenkumar.S, Sarathkumar.R and Mukesh.C won the First place in SAE-India Bridge Building competition at Sri Ramakrishna Engineering College, Coimbatore.





# Faculty Achievements

Civil Engineering Association organized a One Day Hands-on Workshop on "M.S. Project Software" for Third year civil engineering students. The resource person was Er. P. Karthikeyan, PACE, Coimbatore on 29th January 2019. About 70 students of Third year Civil Engineering and five Faculty members benefited from this workshop.





One day Hands on Training cum Faculty Development Programme on Advanced Surveying Techniques conducted by Civil Engineering Department at SKCET. The Resource person was Mr.Viju Darwin , Trainer, Lawrence and Mayo India Pvt. Ltd on 9.2.19.



Indian Geotechnical Society (IGS) Students chapter organized a Guest Lecture on “ Transportation , Logistics and Railway Engineering ” by Mr.Mahesh Hariharan, Research Associate and Assistant Faculty head, Technical university of Munich Asia on 22.2.19.



The Higher Education Cell organized an Awareness program about Universities in abroad for Civil Engineering courses. About 68 students of second year civil engineering and 70 students of third year civil engineering benefitted from the program.

2.An Outreach Program on "STAAD Pro " was organized for Civil Engineering students of Sri Krishna Polytechnic College on 18 th Jan 2019 at Blaise Pascal lab, SKCET.

3.Dr.D.Maruthachalam attended a Seminar and Panel discussion on “ Your story Tamilnadu- Secret to scaling up in 2020” on 31.1.19 at Hotel Taj Vivanta, Coimbatore.

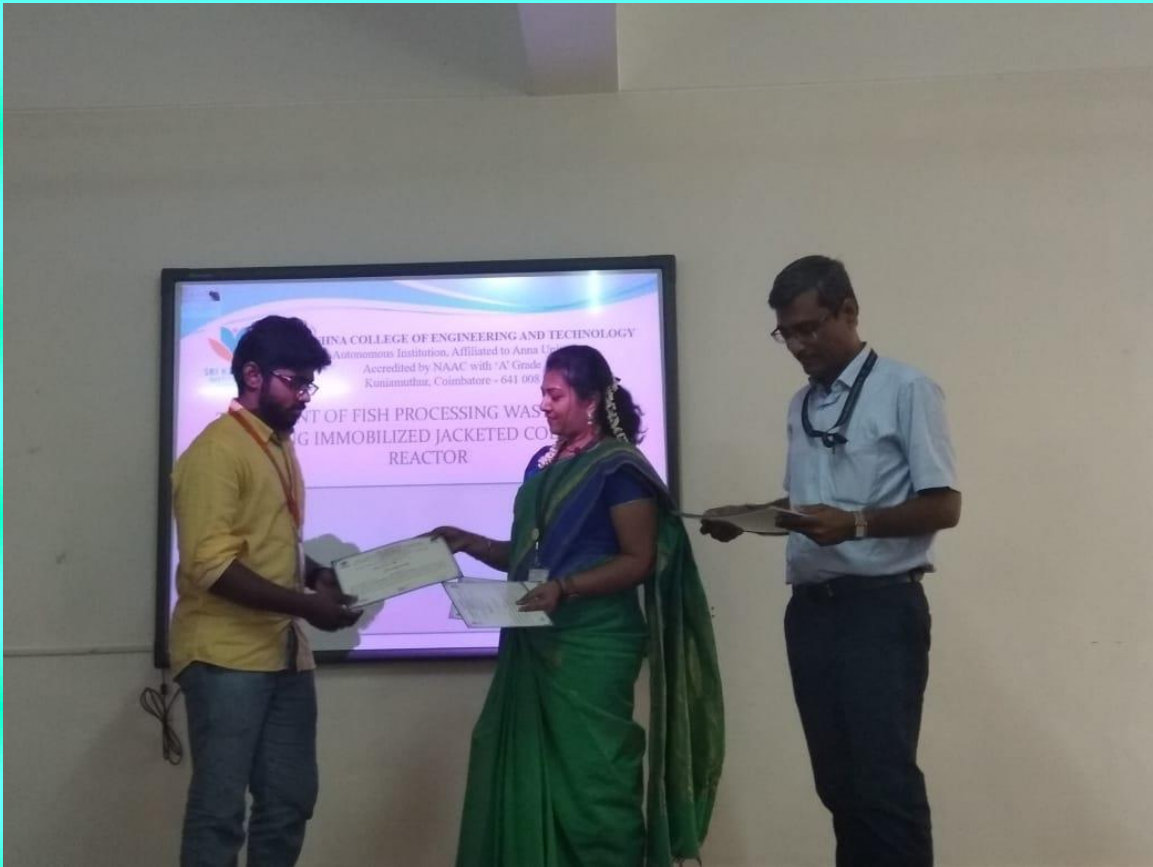
Dr.P.Saravanakumar, Dr.J.Tharrini and Mr.S.C.Boobalan attended a 5 day Short Term Course on "Optimization Techniques" from 21st January to 25th January 2019 organized by SKCET and NITTTR, Chandigarh.



Mr.R.Vighnesh attended One Day Hands-on Workshop on "M.S. Project Software" on 29th January 2019 SKCET and PACE, Coimbatore

Second International Conference on “ Recent Advances in Engineering and Technology “ - ICRAET'19 was conducted on 8.2.19 and 9.2.19 . A total of 18 papers were presented from various colleges like PSG Tech, Kongu , CIT and Amrita. Dr.R.Elangovan, Dr.P.Saravanakumar and Dr.J.Tharrini were the chairpersons during the technical sessions.





The Department of Civil Engineering organized a Short term course on “ Green Buildings and Techniques” in association with NITTR, Chandigarh from 4<sup>th</sup> to 8<sup>th</sup> February , 2019



Academic Review Meeting for parents of First year, Second year, Third year and Final year Civil Engineering students was held on 28.9.19. The Academic performance of the students and the accolades they had received in various events held in other reputed institutions.







# Faculty Publications

## Publications:

1. **Mr.V.Yogeshwaran and Mr.S.Sadeesh** published a paper on "Removal of heavy metals using nano particles - a review" in the Indian Journal of Environmental Protection (Scopus Indexed) Vol 01, Pg No 17 – 21.
2. **Mr.S.C.Boobalan** has published a paper titled "Experimental Study on Concrete by using Manufactured Sand - A General Review" in the Scopus Indexed Journal - Internal Journal of Engineering and Advanced Technology, 8(30, 2019).
3. **Ms.S.Vaishnavi Devi** has published a Paper titled " Public Transportation Management Strategy for Temple City " in the Scopus Indexed Journal - International Journal of Engineering and Advanced Technology (IJEAT), 8(2), 163-167, 2019.

## Online Certifications- Elsevier

- **Mr.R.Vighnesh** Completed an online course on "Greening the Economy: Sustainable Cities", an online non-credit course authorized by Lund University and offered through Coursera.

- **Mr.V.Yogeshwaran and Mr.S.Sadeesh** completed the courses on a) fundamentals of manuscript preparation & b) 10 reasons to get - and use - an ORCID iD conducted by Elsevier Research Academy.

#### **NPTEL Courses:**

1. **Mr.V.Yogeshwaran and Mr.S.Sadeesh** enrolled for a course on Municipal solid waste management for developing countries – Coursera

#### **Professional body memberships**

- Mr.S.C.Boobalan obtained Professional Body Membership in NICEE. Subscriber No. 18SY270
- Mr.R.Vighnesh obtained Professional Body Membership in NICEE. Subscriber No. 18SY245.
- Mr.R.Vighnesh obtained Professional Body Membership in IAENG., Membership No : 227733.
- Mr.S.Sadeesh obtained Professional body Membership from Institute of Research Engineers and Doctors (IRED)



Dr.J.Tharrini, Associate Professor delivered a Lecture on “LET IT MOVE YOU “ as a part of the Extramural Lecture Series for Faculty on 28.2.19.





# Research and Funding

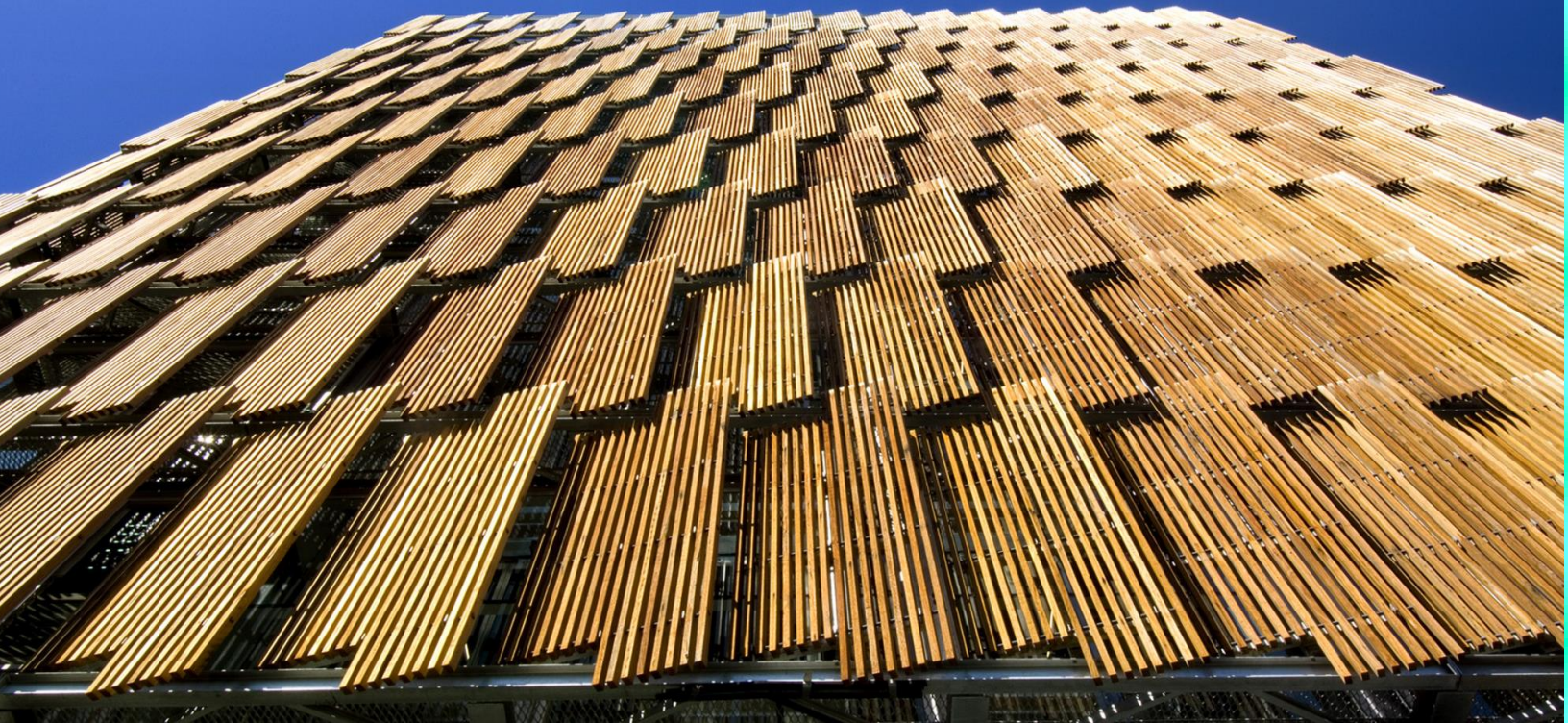
## Funded Projects

M.Sugunadevi, Assistant Professor received a fund of Rs.7500 from TNSCST- Students Project Proposal scheme on the topic " Stabilization of Clayey soil using waste plastic material as an additive.



Dr.D.Maruthachalam, Head of Department and all Faculty congratulated her and handed over a memento to express their sincere wishes.





# Others

Third year Civil Engineering students visited a Construction site in Peelamedu as a part of Outside Classroom Learning Experience for the subject “Design of Reinforced Concrete Elements” . The students learnt about Barbending, various components and detailing of the components. Jain Housing Pvt.Ltd was the resource for the site.







As a part of Pongal Celebration many events and competitions were conducted for Faculty members.

**Mr.A.Jesudass**, Assistant Professor won the first place in the traditional game “Uriyadi”.

**Dr.J.Tharrini** and **Ms.M.Sugunadevi** won the First place in Rangoli competition.

### ***THEME OF THE MONTH -***

### **“ SUSTAINABLE BUILDINGS AROUND THE WORLD”**

1. **Cor Building, Miami.** The polka-dot design of Cor Building is unique in itself. The hyper-efficient exoskeleton is ideal for thermal mass insulation, wind turbines, solar hot water generation, natural shading, cooling, terrace enclosures, armatures for turbines and loggias. It is 400-ft tall building and is a perfect balance of architecture and structural engineering.

2. **7 More London Building** . Known as London's most eco-friendly building, the 40,000 sq ft floor space is occupied by PwC. The building is highly intelligent as the IT system here allows every worker to control the luminance and temperature at their workstations. This building has 4,500 seats and a staff of 6,300 has been involved in various initiatives like using 80 per cent recycling waste, recycling wasted heat to maintain the temperature of the building, reusing cooking oil and usage of solar thermal panels on the rooftop

3. **The Change Initiative Building,UAE.** This 4,000 sq m shopping complex integrates a lot of green technologies including heat reflective wall paint, solar panels, and recycled materials for indoor construction.

4. **The Crystal, UK.** Home to the world's most sustainable event venue, the 18,000 sq m complex is 90% water self-sufficient, solar and thermal roof panels and a high performance 'insulation glazing'. It tops the LEEDs Platinum and the BREEM Outstanding Sustainability scores.

5. **TheEdge, Netherlands.** The Netherlands headquarters of Deloitte, The Edge achieved 98.36% in the Building Research Establishment Environmental Assessment Methodology (BREEAM) – the best ever in its time. The building integrates 65,000 sq ft of solar panel installations, Ethernet powered LEDs, rainwater harvesting, aquifer and occupancy monitoring.

6. **Micro Emission Sun-Moon Mansion, China.** Currently, the largest solar structure in the globe, the premises has been host to International Solar Cities Conference, 2010. The building is designed to have a fan like roof structure that is covered by solar panels, 5000 m<sup>2</sup> of it. Energy saving technologies, sun shades and other innovations help this building save 2.5 tons of coal, 8.6 in toxic emissions and 6.6 million kWh in electricity.

7. **One Angle Square, UK.** The highest rank in the BREEAM score, this office building uses rainwater harvesting and water recycling along with solar building design.

8. **The Council House 2, Melbourne.** Australia was the first to be awarded the Six Green Star Rating. The features include gas-fired cogeneration plants that reduce carbon emissions, 85% reduction in energy consumption by 48m<sup>2</sup> of solar panel installation and lighting technology like T5.



# Management



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