

GOVERNMENT COLLEGE OF TECHNOLOGY COIMBATORE-13



NEWSLETTER 2020

*From the Department of
Civil Engineering*

EDITORIAL TEAM

FACULTIES

DR. R.THENMOZHI,
PROF & HOD.

DR.S.CHITHRA,
ASSISTANT PROFESSOR.

STUDENTS

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MOHAMED SHAKEEL R(1911149)



From the Professor's desk

I am Happy that The Department Newsletter titled “The Builder” is releasing the first issuing the year 2020. I am very Happy to report that We, the Department of Civil Engineering, organized a number of events on a plethora of topics keeping in mind student welfare and development. I am delighted to add that The Department of Civil Engineering of Government college of technology, Coimbatore has signed a Memorandum Of understanding with man industries during this period. This Open-ups many gates for our students including increased preparedness for the Industry And internship opportunities. One such benefit is that we have attached few groups of Final year students with the industry for their project.



I appreciate the entire team for their continuous effort in bringing out this Newsletter with the faculty and students achievements. It gives me immense pleasure in seeing the cumulative presentation of various events by faculty and students.

I wish the Newsletter should carry many more useful information and faculty and students Should make use of this opportunities to express their views and to update their Knowledge.





Vision and Mission of the Institute

Vision :

To emerge as a centre of excellence and eminence by imparting futuristic technical education in keeping with global standards, making our students technologically competent and ethically strong so that they can readily contribute to the rapid advancement of society and mankind.

Mission :

- To achieve Academic excellence through innovative teaching and learning practices.
- To enhance employability and entrepreneurship.
- To improve the research competence to address societal needs.
- To inculcate a culture that supports and reinforces ethical professional behavior for a harmonious prosperous society.

Vision and Mission of the Department

Vision :

Marching towards the centre of excellence in Engineering and Technology with sustainable development to bring out professionals with futuristic vision.

Mission :

- To mould the students to be good planners, designers, executors and ethical Engineers
- to serve the society and strive for the development of the nation.
- To make Civil Engineering department a renowned high-tech consultancy centre for various Civil Engineering activities.
- To create a nodal centre for providing consulting services during natural calamities.
- To make this department a centre for research and development activities with field interaction.

Journal Publications :

1. Prakash, R., Thenmozhi, R., Raman, S. N., Subramanian, C., & Divyah, N. "Mechanical characterisation of sustainable fibre-reinforced light weight concrete incorporating waste coconut shell as coarse aggregate and sisal fibre", International Journal of Environmental Science and Technology, August 2020, Vol. 18, Issue 6, pg.: 1579-1590, <https://doi.org/10.1007/s13762-020-02900-z>
2. Prakash, R., Thenmozhi, R., Raman, S. N., & Subramanian, C. "Fibre reinforced concrete containing waste coconut shell aggregate, fly ash and polypropylene fibre.", Revista Facultad de Ingeniería Universidad De Antioquia, January 2020, Vol 94, pg. 33-42, <https://doi.org/10.17533/10.17533/udea.redin.20190403>
3. Prakash, R., Thenmozhi, R., Raman, S. N., & Subramanian, C , "Mechanical behaviour of polypropylene fibre reinforced concrete containing waste coconut shell as coarse aggregates and fly ash as partial cement replacement", Revista Facultad de Ingeniería Universidad de Antioquia, 2020, Vol. 94, pp. 33-42
4. Prakash, R., Thenmozhi, R., Raman, S. N., Subramanian, C., & Divyah, N. "An investigation of key mechanical and durability properties of coconut shell concrete with partial replacement of fly ash", Structural Concrete, March 2020, Volume 22, Issue 1, Pg. E985-E996, <https://doi.org/10.1002/suco.201900162>
5. Divyah, N., Thenmozhi, R., & Neelamegam, M. "Experimental and Numerical Analysis of Battened Built-up Lightweight Concrete Encased Composite Columns subjected to Axial Cyclic loading", Latin American Journal of Solids and Structures, 2020, Vol. 17, Issue. 3. <https://doi.org/10.1590/1679-78255745>





6. Nagarajan, D., Thenmozhi, R., & Meyappan, N., “A comparative study on prediction models for strength properties of LWA concrete using artificial neural network”, Revista de la construction, 2020, Vol.19, Issue. 1, pp.103-11, <http://doi.org/10.7764/rdlc.19.1.103-111>

7. Divyah, N., Thenmozhi, R., & Neelamegam, M , “Strength properties and durability aspects of sintered-fly-ash lightweight aggregate concrete”, Materials in Tehnologije,, June 2020, Vol. 54, Issue. 3, pp.301–310, <https://doi:10.17222/mit.2019.101>


8. Nagarajan Divyah, Thenmozhi, R., Neelamegam, M. ,Prakash, R., “Characterization and Behaviour of Basalt fibre reinforced Lightweight concrete” Structural Concrete, August 2020, Vol 22, Issue 1, pg.: 422-430, <https://doi.org/10.1002/suco.201900390>

9. Rekha, K., & Thenmozhi,R. “Characterisation and utilization of sugarcane bagasse ash as pozzolanic material and its effect on mechanical strength of concrete”, Journal of Environmental Protection and Ecology, October 2020, Volume 21, book 1, ISSN 1311-5065, pp 268-279

10. M. Priyadarshini, D. Padmini, S. Makesh Kumar, S. Chithra, “Optimization of Self-Compacting Concrete Using Taguchi Based Grey-Relational Analysis Method” International Journal for Science and Advance Research In Technology, June 2020. Volume 6 Issue 6, Pg 998-1005–June 2020.

11. Sakthishanmugam,J., Andavar.P, “Experimental Study on Nano Engineered Concrete with Graphene Oxide” IJSART, Vol. 6, Issue 6, Pg. 241-251, June 2020





12. Karthik, V., P. Senthil Kumar, Dai-Viet N. Vo, J. Sindhu, D. Sneka, B. Subhashini, K. Saravanan, and Jeyanthi. J. "Hydrothermal production of algal biochar for environmental and fertilizer applications: a review.", November 2020, Environmental Chemistry Letters, Vol.19, Issue 2, pg.:1025-1042, <https://doi.org/10.1007/s10311-020-01139-x>

13. Sharmila, Govindasamy, C Muthukumaran, S Kirthika, S Keerthana, N Manoj Kumar, and Jeyanthi. J., "Fabrication and characterization of Spinacia oleracea extract incorporated alginate/carboxymethyl cellulose microporous scaffold for bone tissue engineering." August 2020, International journal of biological macromolecules, Vol. 156, pg: 430-437. <https://doi.org/10.1016/j.ijbiomac.2020.04.059>.

14. Akshaya Subadharshini R, Jeyapriya S P "Performance of Geocell Reinforced Clay Bed subjected to static loading" International journal for technological Research in Engineering, April 2020, Vol.7, Issue 8, pp 6754 – 6757

15. K.Tripooja ,S.P.Jeyapriya "Improvement of Engineering properties of soft cohesive soil using grouted technique" Indian Journal of Creative Research Thoughts, April 2020, Vol.8, Issue 4 ,pp. 847-851, ISSN: 2320-2882

16. Jencipriya, A., Meiaraj, C., "Analysis of Groundwater Quality mapping using GIS around Singanallur lake located in Coimbatore", IRJET, Vol. 7, Issue 7, July 2020, Pg.-4767-4773, eISSN:2395-0056.

17. S. Leka, R.Chithra, E. Yazhini, "Dynamic Behaviour of Concrete Cylindrical Shells Under Free Vibration" International Journal for Science and Advance Research In Technology, 2020, Volume: 6, Issue: 5, pp: 456-462._

18. Satheeskumar, V., Subramani, T., Lakshumanan, C., Roy, P. D., & Karunanidhi, D. "Groundwater chemistry and demarcation of seawater intrusion zones in the Thamirabarani delta of south India based on geo chemical signatures", Environmental Geochemistry and Health, February 2020, Vol. 43, pg.757–770, <https://doi.org/10.1007/s10653-020-00536-z>



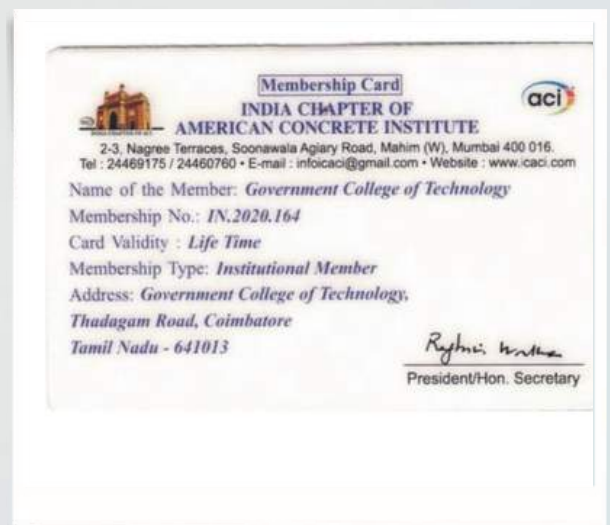


19. Praburanganathan S, Chithra S .,“Synergy of waste glass powder and waste rubber: A research on loading, perseverance and morphological features of unburnt Fly-ash-based masonry units”, February 2020, Materiali in technology, Vol. 54 Issue 1, Pg 99–106, doi:10.17222/ MIT.2019.142

20. Mohammed Hassain B, Chithra S “Analytical Study and Seismic Evaluation of Diagrid Structural System For High Rise Steel Building”, International Research Journal of Engineering and Technology, June 2020, Volume 7 Issue 6, Pg 984-989, e-ISSN: 2395-0056

Professional Body Membership

- Department of Civil Engineering received Membership from American concrete institute as an Institutional member.



- Department of Civil Engineering received Membership from Indian Concrete Institutions as an Organization life member.



PhD Completed



Research Scholars :

1. Mr.R.Prakash completed his PhD on the title “ Behaviour of Fibre reinforced Coconut Shell Concrete.” under the guidance of Dr.R.Thenmozhi.
2. Miss.P.Subashree completed her PhD on the title “ Bending and Impact Strength Behaviour of Crumb Rubber Concrete.” under the guidance of Dr.R.Thenmozhi.
3. Miss.S.Janani completed her PhD on the title “Experimental behavior of Cold formed steel sigma Purlins” under the guidance of Dr.R.Thenmozhi.
- 4.Miss.R.Jayalaksmi completed her PhD on the title “Investigations On The Simultaneous Removal Of Binary Dyes From Textile Effluent Using Polymer-Based Nano Composites.”under the guidance of Dr.J.Jeyanthi.
- 5.Miss.J.Glory Selvamano completed her PhD on the title “Simulation And Optimization Model To Control Saltwater Intrusion In The Coastal Aquifers Of Tuticorin, India.” under the guidance of Dr.J.Jeyanthi.
6. Miss.P.Mahakavi completed her PhD on the title “Valorization Of Recycled Waste Materials In Development Of Hybrid Fiber Reinforced Self-Compacting Concrete ” under the guidance of Dr.R.Chithra.



Faculties :



1. Dr.S.Murugan completed his PhD under Anna University, Chennai during July 2021
2. Dr.G.Dhamodharakannan completed his PhD under Anna University, Chennai during November 2021
3. Dr.V.Satheeskumar completed his PhD under Anna University, Chennai during January 2021

MoU Partners



Civil Engineering department has signed MoU with the following organisations for the betterment of academic and professional activities:

1. M/s. INFINUSTECH, Structural Engineering Consultancy Firm for the period 14.09.2020 - 13.09.2023
2. M/s. S G Structural Engineers, Civil and Structural Engineering Firm for the period 14.09.2020 -13.09.2023
3. Irrigation Management Training Institute (IMTI)for the period 17.12.2020- 16.12.2025

NPTEL Courses



1. Dr.S.P. Jeyapriya completed NPTEL course on Geotechnical Engineering-I.
2. Dr. M. Rama completed NPTEL course on Characterization of Construction Materials, Advanced Topics in the Science and Technology of Concrete, Maintenance and Repair of Concrete Structures and Principles and Application of Building Science.
- 3.Prof.Bharathi C completed SWAYAM course onPedagogical Innovations and Research Methodology and NITTTR Eight module Course.



GATE



Department of Civil Engineering is happy to announce that the following 11 students cleared GATE 2020 exams with valid score:

1. Kishore kumar A (1611134) cleared GATE 2020 with an overall rank of 6208 and GATE score of 518 along with 48.32 marks out of 100.
2. Siva S (1611191) cleared GATE 2020 with an overall rank of 7545 and GATE score of 487 along with 45.48 marks out of 100.
3. Abubacker siddiq A(1611103) cleared GATE 2020 with an overall rank of 7820 and GATE score of 481 along with 44.89 marks out of 100.
4. Subhash K (1611197) cleared GATE 2020 with an overall rank of 7820 and GATE score of 466 along with 43.52 marks out of 100.
5. Amirthalingham S (1611108) cleared GATE 2020 with an overall rank of 10383 and GATE score of 436 along with 40.78 marks out of 100.
6. Sudhamani R (1611198) cleared GATE 2020 with an overall rank of 16834 and GATE score of 358 along with 33.59 marks out of 100.
7. Shanmugaraj (1611187) cleared GATE 2020 with an overall rank of 17820 and GATE score of 349 along with 32.77 marks out of 100.
8. Lokeshwar R (1611136) cleared GATE 2020 with an overall rank of 19946 and GATE score of 331 along with 31.14 marks out of 100.





9. Poushya C (1611169) cleared GATE 2020 with an overall rank of 20397 and GATE score of 327 along with 30.81 marks out of 100.

10. Tamizhselvi A (1611201) cleared GATE 2020 with an overall rank of 20396 and GATE score of 326 along with 30.71 marks out of 100.

11. Abineshwar G (1611102) cleared GATE 2020 with an overall rank of 32884 and GATE score of 253 along with 23.97 marks out of 100

Paper Presentation by Students

1. Dharshini M (2017-21) Presented Paper on Sustainable Design Challenge on 08/03/2020 at IIT Madras.

2. Dhivya Bharathi N (2017-21) Presented Paper on Sustainable Design Challenge on 08/03/2020 at IIT Madras.

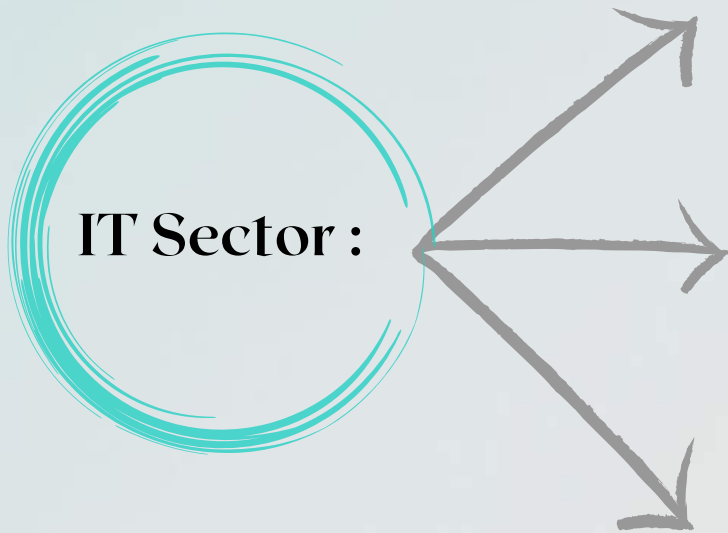
3. Kanimozhi M (2017-21) Presented Paper on Sustainable Design Challenge on 08/03/2020 at IIT Madras.

4. Ethanika T (2017-21) -presented paper at PSG Institute of Technology and Applied Research (5/2/2020 to 6/2/2020)

5. Ragavi M(2017-21) Low cost housing PPT in PSG itech, sewer appurtenances PPT in GCT, workshop in PSG itech (5/2/2020 to 6/2/2020)



Placements



- Zancot Electronics - 2 Students



- Cognizant (CTS) - 2 Students



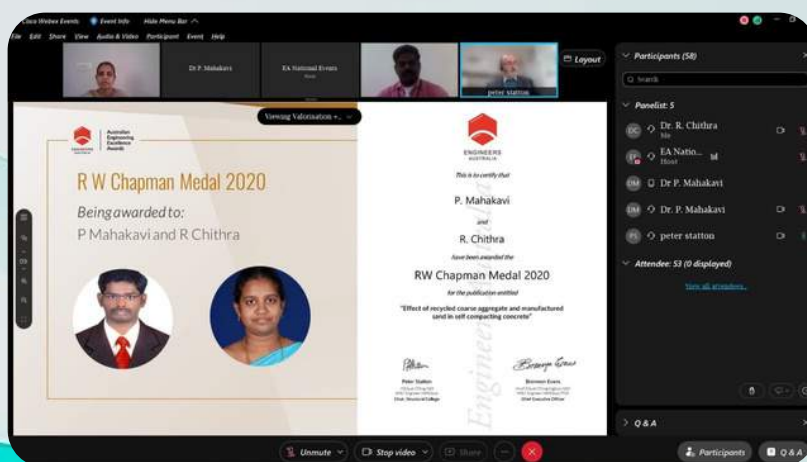
- Infosys - 3 Students



Programmes Organised

1. TEQIP III sponsored one week training programme on "Yoga for Youth Empowerment" by ManavalakalaiMandraThavaMaiyam, Coimbatore, for Civil Engineering students during 06.01.2020-10.01.2020
2. TEQIP III sponsored one week "Student Excellence and Learning Programme (SELP)" for II year B.E. Civil Engineering students, held from 20th to 25th January, 2020
3. TEQIP III sponsored Industry oriented webinar on "Building Information Modelling" for Civil Engineering students held on 06.06.2020.

4. TEQIP III Sponsored One week Online Short Term Training Programme on “Recent Trends in Structural Engineering” from 16.06.2020 to 20.06.2020
5. TEQIP- III Sponsored Three days Online Employability Enhancement Programme on “Structural Analysis and Design of Structures” from 22.06.2020 to 24.06.2020
6. TEQIP III sponsored (IQAC) webinar series on “Teach 2 Influence”, held on 11th, 18th & 25th July 2020.
7. Webinar on “Execution of water supply project – A case study” in association with 1983 GCT Alumni batch, held on 15th July,2020
8. Tamilnadu State Government Sponsored Five days On-Line Faculty Development Programme on “Recent Trends in Construction Materials and Technology”, held from 20th to 24th July,2020.
9. Online Training Programme on “Surveying using Total Station”, held on 06th July 2020- 10th July 2020 for Civil Engineering students.
10. Webinar series on “Turning Point (Career opportunities for Civil Engineers)” in association with 1983 GCT Alumni batch, held from 3rd to 7th August,2020.
11. International webinar on Advances in Concrete Composites on 07.09.2020
12. Online Webinar on Western Ghats and Dam Management held on 23.12.2020 for Final Year Civil Engineering students (2017 Batch).
13. Dr.J.Sankar. Building Valuer, Salem conducted training on “Surveying with Total Station” from 06.07.2020 to 10.07.2020



Student Activities

- Prakash B(1711166) participated in a quiz contest at Rathinam technical campus
- Sujithra M(1711192) participated in a webinar contest at CIT,Coimbatore, a webinar contest at GCE ,Thirunelveli,and a traffic simulation contest at GCE ,Thirunelveli.



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GOVERNMENT COLLEGE OF TECHNOLOGY



ARUNPRASATH A

Intra College Annual Sports
meet-2020

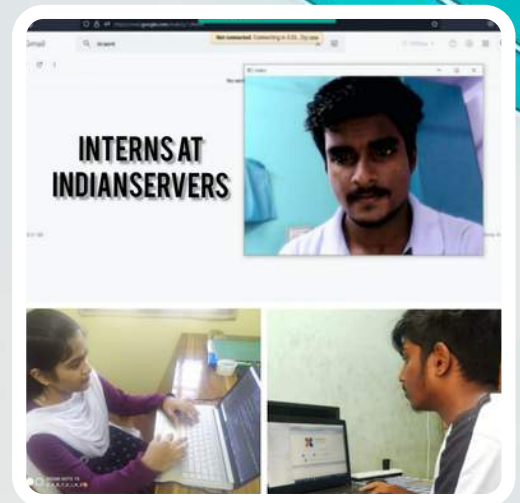
Javelin	-gold
Shotput	-silver
Discuss throw	-gold



- Sowmiya P(1711191) participated in a biotechnology application contest at GCE,Thirunelveli,a webinar contest at SRM Chennai and a webinar contest at GCE ,Thirunelveli, a webinar contest at Francis Xavier College.
- Snowlin Wilson G(1711L20) participated in E learning contest at Hindusthan college



- Priyadharshini P(1711176) participated in a webinar contest at Siaghad college,Pune,Environment impact contest at Hindustan college,Concrete technology webinar at Hindustan college and a webinar contest at SRM Chennai.



- Preetha P S(1711173) participated in webinar contest at Siaghad college,Pune, Concrete technology webinar at Hindustan college and a webinar contest at SRM Chennai.
- Nithishprathap R(1711163) participated in webinar contest at Hindustan college.





- Sundarbalan S (1711193) participated in webinar contest at Hindustan college.

- Sindhu M(1711187) participated in basis of field contest at KCT,Coimbatore, a webinar at Hindustan college , webinar series at Dr.N.G.P college,seismic analysis contest at St. Joseph college.



- Selvi S (1711193) participated in webinar contest at Hindustan college.

- Sivapriya S(1711190) participated in a webinar of impact on special concrete at Franxix Xavier college.

