



# CET NEWSLETTER

The Official Newsletter of College of Engineering Trivandrum

2020-21 | VOLUME 9 ISSUE 2

## COVID-19 PANDEMIC CET DEVELOPED A PULSE OXIMETER CET-OXYMONITOR



Dr. Jiji C. V., Principal, CET handed over the pulse oximeter -CET OXYMONITOR - developed by CET to Smt. Veena George, the Hon.Minister of Health, Government of Kerala





## PRINCIPAL'S MESSAGE

by Dr. Jiji C.V.

We were moving through an unprecedented and challenging phase for the last 18 months induced by the global pandemic. I am grateful to the faculty, students and staff for keeping team spirit and productivity high even during the most testing times. This edition of the newsletter presents a brief account of major activities during the above period. It's a matter of pride that our campus recruitments were an ever time high even during the pandemic period. We have made enhancement in the research and development front also by contributing many research publications and patents by our students and faculty during this period. As part of state government's Covid relief activities, timely development of low-cost pulse oximeters and a hospital robot devised for covid patient's care were two of the major contributions of CET in the pandemic period. Interaction with our alumni was at its peak during this period and our alumni apart from their continued financial support have helped our students to have access to online mode of learning by contributing 260 laptops to our deserving students. In addition, various alumni groups initiated many online student development activities through different student clubs and finishing school programmes during the demanding times. Once we resume our academic activities in normal mode, with continued support from our alumni and industry institute interaction through our TrEST research park, we expect to contribute significantly towards research, development and community services and thus making sure a better position in the National level ranking of institutions and also create better opportunities for our students in the coming years.

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# RESEARCH CONTRIBUTIONS

This section is dedicated to acknowledging the outstanding efforts put in by our students and faculty across a spectrum of academic activities ranging from paper presentations to Journal Publications.

## Journal publications

Aleesha Charuvila, Abhilash V.S., Crowdfunding; Low Risk Finance for Businesses- A Comparative Study , Asian Journal of Economics, Finance and Management 4(1) 20-32, 2021

Anupama Krishna, D., Priyadarsini, R.S. Narayanan, High temperature effects on different grades of concrete, Sadhana, Vol V, Indian Academy of Sciences 2021. <https://doi.org/10.1007/s12046-020-01536-6>

Anusha, S.P., Vanajakshi, L. Subramanian, S.C. Dynamical systems approach for queue and delay estimation at signalized intersections under mixed traffic conditions. Transportation Letters, p.1-13, 2021

Henna, K., Saifudeen, A., Mani, M. Resilience of vernacular and modernising dwellings in three climatic zones to climate change. Sci Rep 11, 9172, 2021. <https://doi.org/10.1038/s41598-021-87772-0>

Jnaneswar K., Gayathri Ranjit, Organisational justice and innovative behaviour: Is knowledge sharing a mediator?, Industrial and Commercial Training, Vol. 53, No. 1, p. 77-91, 2021

Jnaneswar K., M M Sulphrey, A study on the relationship between workplace spirituality, mental wellbeing and mindfulness, Management Science Letters, 2021, Vol. 11, No. 3, p. 1045-1054

Jnaneswar K, Aishawarya JS, Bhagath Soorya D, The Impact of Capital Structure on the Financial Performance of Hotel Industry and Automobile Industry, Asian Journal of Economics, Finance and Management, June 2021, 4(3) 21-31

K Mahesh, RS Mini, Investigation on the Acoustic Performance of Multiple Helmholtz Resonator

Configurations, Acoustics Australia, 49, 355-369, 2021. <https://link.springer.com/article/10.1007/s40857-021-00231-8>

K Mahesh, S Kumar Ranjith, RS Mini , Inverse design of a Helmholtz resonator based low-frequency acoustic absorber using deep neural network, Journal of Applied Physics 129 (17), 174901, 2021, <https://aip.scitation.org/doi/abs/10.1063/5.0046582>

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Luping Zhang, Fei Xu, Ajeesh Ramanujan, K.G. Subramanian, Control Languages Accepted by Labelled Spiking Neural P Systems with Rules on Synapses, Theoretical Computer Science, 2021, ISSN 0304-3975, <https://doi.org/10.1016/j.tcs.2021.06.027>

M.C. Mallika, K. Asokan, K.S. Kumar, T.R. Ramamohan, K. Satheesh Kumar, Improved tests for non-linearity using network-based statistics and surrogate data, Pramana 95 (3), 1-9, 2021

M.G. Arun, D. Dilip, S.K. Ranjith, Effect of interface curvature on isothermal heat transfer in a hydrophobic microchannel with transverse ribs and cavities, International Journal of Thermal Sciences 167, 107014, 2021

Manjusha Muraleedharan, Yashida Nadir, Factors affecting the mechanical properties and microstructure of geopolymers from red mud and granite waste powder: A review <https://doi.org/10.1016/j.ceramint.2021.02.009>, 2021

Monisha Menon A., Biji Jacob A simplified space vector pulse density modulation scheme without coordinate transformation and sector identification <https://doi.org/10.1109/TIE.2021.3080201>



Neena Raj N. R., R.Shreelekshmi, A survey on fragile watermarking based image authentication schemes, Multimedia Tools and Applications, 80, 19307–19333, 2021.<https://doi.org/10.1007/s11042-021-10664-y>

Priyadarsini, R. S., V. Kalyanaraman S. M. Srinivasan Investigations on axially compressed composite cylindrical shells with surface bonded PZT, Thin-Walled Structures, Elsevier, Volume 161, 2021, 107434

S. R. Dhanya, Mangalam S. Nair, B. S. Dileep Kumar, Vandana Sankar, Chemical constituents from *Chonemorpha fragrans* roots and antibacterial activity studies of sarcocurcine D, Natural Product Research, <https://doi.org/10.1080/14786419.2021.1910263>

Shaise K. John, Alessio Cascardi, Yashida Nadir, Maria Antonietta Aiello, K. Girija, A New Artificial Neural Network Model for the Prediction of the Effect of Molar Ratios on Compressive Strength of Fly Ash-Slag Geopolymer Mortar <https://doi.org/10.1155/2021/6662347>

Shaise K. John, Yashida Nadir, K. Girija, Effect of source materials, additives on the mechanical properties and durability of fly ash and fly ash-slag geopolymer mortar: A review <https://doi.org/10.1016/j.conbuildmat.2021.122443>

Shenil P S, Nonintrusive AC voltage measurement unit utilizing the capacitive coupling to the power system ground, IEEE Transactions of Instrumentation and Measurements, 2021

Sindhu T.K., Rani Pavithran, Vidhya A., Design of 3D-supramolecular metal organic framework of zinc as photocatalyst for the degradation of methylene blue through advanced oxidation process, Journal of Molecular Structure 1245 2021 131039, <https://doi.org/10.1016/j.molstruc.2021.131039>

Sini V. Pillai, A novel uni-directional flow circular facility layout for effective social distancing, Vision-The Journal of Business Perspective (VIS), 2021, <https://doi.org/10.1177%2F0972262920984855>

Sivakumar Ramachandran, Punnaakkadan Niyas, Anand Vinekar, Renu John, A deep learning framework for the detection of Plus disease in retinal fundus images of preterm infants, Biocybernetics and Biomedical Engineering, 41(2), p.362-375, 2021

Soorya, D. B., Mathew, L. S., A Study on the Impact of Inventory Control on Enhancing Organizational Efficiency of Travancore Titanium Products Limited, Asian Journal of Economics, Finance and Management, 4(2), 31-40, 2021

Sumi, S, Unnikrishnan, N., Lea Mathew, The Effect of Surface Modified Coir Geotextiles on Environmental Resources Journal of Natural Fibers, Taylor and Francis 1544-0478 Published online: 18 March 2021

Unnikrishnan M, A finite element model for the analysis of flexible tube Coriolis mass flow meter using first order shear deformation shell theory, Flow Measurement and Instrumentation, 2021

Vinith R, Sini V. Pillai, Abhilash V.S., A Study on the Impact of Capital Structure and Financial Risk of IT Industry, Asian Journal of Economics, Finance and Management 4(1), 33-45, 2021

Vipin R, Sini V. Pillai, Abhilash V.S., A Study on the E- banking Services banking Services and Risk Perception with Reference to Trivandrum, Asian Journal of Economics, Finance and Management 3(4): 43-52, 2021

Vinod S., Biju G.S., Automorphism group of Dihedral Groups with perfect order subsets in the book Communications in Mathematics and Applications, vol.12, No.2, p.263-271, 2021, ISSN 0975-8607, doi:10.26713/cma.v12i2.1513

J Prem Kumar, VR Rajeev, K Krishnakumar, M Hashim, Microstructure and Hardness Evaluation of Functionally Graded A356-20 wt.% SiCp Composite, Advances in Systems Engineering, p. 235-243, doi 10.1007/978-981-15-8025-3\_23

## Book Chapters

Harishkumar B., Recent Developments of Fiber Reinforced Polymer Composites in Automotive, in the book, Fiber-Reinforced Polymers, p.131-176, ISBN: 978-1-53619-049-6 - © 2021, Nova Science Publishers, Inc.

Nishan Nazer K.K., Nidhish P.J., Settlement Development of Indigenous People in the Context of Coastal Area Development in Kozhikode. In: Mishra R.K., Singh R.B., Dubey A. (eds.) Sustainable Climate Action and Water Management. Advances in Geographical and Environmental Sciences. Springer, Singapore. [https://doi.org/10.1007/978-981-15-8237-0\\_27](https://doi.org/10.1007/978-981-15-8237-0_27), 2021

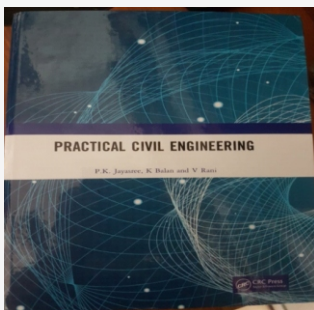
Sathish, Aparna, Sociability—A Precursor to Social Sustainability in the book Sustainability, in the Built Environment in the 21st Century: Lessons Learned from India and the Region doi 978-3-030-61891-9\_10, ©2021

## Books Published

Dr. P.K.Jayasree, K.Balan and V.Rani, Practical Civil Engineering, CRC Press, Taylor & Francis Group, 2021, ISBN 9781138033139

Dr. K.Asokan and Dr. V.Hema, Probability, Statistics and Numerical Methods, pages 414, Owl Books, 2021, ISBN 9781234567897

Dr. K. Asokan, Dr. V. Hema, Probability, Random Processes and Numerical Methods, pages 392, OwlBooks, 2021, ISBN 9789385666841



## Conference Papers

Abraham A., Koshy R., A Survey on VANETs Routing Protocols in Urban Scenarios. In: Palesi M., Trajkovic L., Jayakumari J., Jose J. (eds) Second International Conference on Networks and Advances in Computational Technologies.

Transactions on Computational Science and Computational Intelligence. Springer, Cham., 2021, [https://doi.org/10.1007/978-3-030-49500-8\\_19](https://doi.org/10.1007/978-3-030-49500-8_19).

C. A. Deepa, P. C. Reghu Raj, Ajeesh Ramanujan, Improving relation extraction beyond sentence boundaries using attention, International Conference on Computational Sciences-Modelling, Computing and Soft Computing (CSMCS 2020) (AIP Conference Proceedings 2336), 040004, 2021 <https://doi.org/10.1063/5.0046136>

Haridas A., Preethi L., A Survey on Different Search Techniques Over Encrypted Data in Cloud. In: Palesi M., Trajkovic L., Jayakumari J., Jose J. (eds) Second International Conference on Networks and Advances in Computational Technologies. Transactions on Computational Science and Computational Intelligence. Springer, Cham., 2021, [https://doi.org/10.1007/978-3-030-49500-8\\_11](https://doi.org/10.1007/978-3-030-49500-8_11)

J.Asha, S.Santhosh Kumar, S.Rishidas, Forecasting performance comparison of daily maximum temperature using ARMA based methods, Journal of Physics: Conference Series, Volume 1921, First International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2021), 19-20, March 2021, Goa, India

Rajan V.M., Ramanujan A., Architecture of a Semantic Word Cloud Visualization. In: Palesi M., Trajkovic L., Jayakumari J., Jose J. (eds) Second International Conference on Networks and Advances in Computational Technologies. Transactions on Computational Science and Computational Intelligence. Springer, Cham., 2021, [https://doi.org/10.1007/978-3-030-49500-8\\_9](https://doi.org/10.1007/978-3-030-49500-8_9)

Ramanujan A., Varghese B.A. A Survey on DDoS Prevention, Detection, and Traceback in Cloud. In: Palesi M., Trajkovic L., Jayakumari J., Jose J. (eds) Second International Conference on Networks and Advances in Computational Technologies. Transactions on Computational Science and Computational Intelligence. Springer, Cham., 2021, [https://doi.org/10.1007/978-3-030-49500-8\\_7](https://doi.org/10.1007/978-3-030-49500-8_7)

Ramanujan A., Varghese B.A. Internet Censorship Based on Bayes Learning Model. In: Palesi M., Trajkovic L., Jayakumari J., Jose J. (eds) Second International Conference on Networks and Advances in Computational Technologies. Transactions on Computational Science and Computational Intelligence. Springer, Cham., [https://doi.org/10.1007/978-3-030-49500-8\\_5](https://doi.org/10.1007/978-3-030-49500-8_5)

K. A. Akhil, C.V. Jiji, Single image hdr synthesis using a densely connected dilated convnet, IEEE conference on Computer vision and pattern Recognition workshops, p.526-531, 2021

E. Perez-Pellitero, Akhil K.A., Jiji C.V. et al., NTIRE 2021 challenge on high dynamic range imaging: dataset, methods and results, in Proceedings of the IEEE conference on computer vision and pattern recognition workshops, p.691-700

### Conference Presentations

Alisha Charuvila, Demystifying service quality in e-commerce during Covid 19 pandemic" at the International Conference on Insights in Marketing (ICIM) 2021', Rajagiri College of Social Sciences Kochi, Rajagiri Business School Kochi and Vives University, Belgium, February 5th 2021

Abhilash V.S., Sini V Pillai, Investigation on Post Covid key employability attributes for new entrants in India, 31st Annual State Faculty Convention of ISTE Kerala Section on Opportunities and Challenges in Technical Education in the Post COVID Scenario on 23rd January 2021.

James, Kajol, Sathish, Aparna, Resilient pattern-based alternatives for Public Transport Infrastructure. International Review for Spatial Planning and Sustainable Development. SPSP Press, 5-7 February 2021

Jeeshma Mary Paul, Biji Jacob, 3D Space Vector Pulse Density Modulation Scheme for Two-Level Four-Leg Inverter, 22nd IEEE International Conference on Industrial Technology, Valencia, Spain during 10-12 March 2021

Amal Ragesh, Linda Susan Mathew, Impact of Consumer Perception on Brand Insistence Among Food Industries During Covid-19

Pandemic, National Conference on 'Business Management and Analytics', NIT Thiruchirappalli

Nandita Subodh, Impact of E-Recruitment and Its Effectiveness on Human Resource Management, National Conference on 'Business Management and Analytics', NIT Thiruchirappalli

Nidhish P.J., Dili A.S., A literature overview of 'effectiveness' of community participation in participatory tourism planning, 6th Biennial Conference on Emerging Trends in Engineering Sciences & Technology, ICETESSET 2021

Paul, Noble K., Sathish, A., Transect Approach to Analyze Fragmented Development: A Case of Airport Corridor of Bangalore. International Conference on Resilient and Livable City Planning. SPA Vijayawada, 2021

Ranagith, Gayathri., Sathish, Aparna, Urban Design Strategies for Water Resource Management : a case of Palakkad. 5th Annual Research on Cities Summit (ARCS 5.0). School of Human Settlements, Xavier University, Bhubaneswar, 2021

Abilash Daniel George, Posture as a Precursor to Emotions: An Investigation to link Physio psychology to Applied Ergonomics at CERE 2021, hosted by IIM Indore on 18-20 June 2021

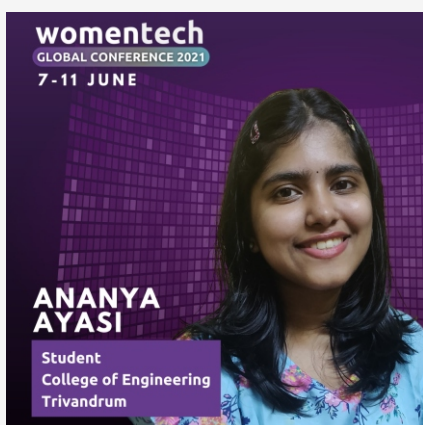
Amala E G, P S Lal Priya, Bending Deformation Relation with various materials for a soft pneumatic actuator, International Conference on Emerging Trends in Industry 4.0, ETI 4.0, 19-21 May 2021, Raigarh, India

Amrutha V P; Sreeja S; Sabarinath A, Trajectory Optimization of Lunar Soft Landing Using Differential Evolution, IEEE Aerospace Conference, Big Sky, Montana, US, 6-12th March, 2021

Ananya Ayasi, Understanding Quantum Technology to formulate ethical legal Frameworks around it for Careers in Quantum, conducted by QET Labs and University of Bristol in October 2020. Hers was the only entry from India, among the 12 posters that were presented during the poster presentation session



Ananya Ayasi, delivered a talk on Quantum Technology and its impact on society for Women Tech Global Conference '21



Gayathri Ranjit, Alisha Charuvila, Demystifying service quality in e-commerce during Covid 19 pandemic at the International Conference on 'Insights in Marketing (ICIM) 2021 jointly organised by Rajagiri College of Social Sciences Kochi, Rajagiri Business School Kochi and Vives University, Belgium on Feb 5th 2021

Hafiz, M., Babu, A., Anusha, S.P., 2021, Comparative Study of Estimation Models and Sensor Data Application for Delay Estimation at Pre-Timed Signalized Intersections under Mixed Traffic Conditions, Transportation Research Board 100th Annual Meeting, Washington, U.S.A

Jnaneswar. K., Gayathri Ranjit, Disruptive technologies facilitating remote learning during pandemic times in the International Management conference held during April 23-24, 2021, organized by IIM Bhodhgaya

Jnaneswar K., Gayathri Ranjit, Disruptive Technologies transforming Education post Covid 19 at the 31st Annual State Faculty Convention of ISTE Kerala Section on Opportunities and Challenges in Technical Education in the Post COVID Scenario on 23rd January 2021.

Jnaneswar K., Gayathri Ranjit, Technology Enhanced Education In The New Normal in the National Conference on Business Management and Analytics held on 30th April 2021, organized by NIT Trichy

Lakshmi C.R, Rajeev Rajan, Attention-Based Predominant Instrument Recognition in Polyphonic Music, SMC 2021

Maria Philip, P.S. Lal Priya, Pick and Place Operation of a Robotic Arm Using Multirate Event Triggered Sliding Mode Control, IEEE International Conference on Control, Measurement and Instrumentation (CMI), January 8-10, 2021, Kolkata, India

S.Binu, OTDR based fibre optic distributed strain sensor, International Conference on Novel engineering materials for Biomedical, Energy, Environmental Sensing, and other application (ICON-BEES-2021), NIT Trichy, 11-13 march 2021.

S.Binu, Polymer fibre optic probe for sensing the variation of refractive index with concentration of liquids, Virtual International Conference on Advances in Chemistry and Chemical Engineering 2021, SVNIT Surat, April 16 -17, 2021

### Expert Lecture Delivered

Abilash Daniel George, Webinar Session on Teamwork for employees of Accubits June 2021

Dr. Lal Priya P.S., Introduction to Robust Control, April 26, 2021 at Govt Engineering College Barton Hill, Thiruvananthapuram.

Dr. Lal Priya P.S., Linear Fractional Transformations, April 28, 2021 at Govt. Engineering College Barton Hill, Thiruvananthapuram

Dr. Rani Pavithran, Nanocomposites as photocatalysts for Hydrogen Evolution in KTU sponsored one week online Faculty Development Programme, Recent Development of Biopolymer and Sustainable Composites for Engineering Applications organized by Sree Budha Engineering College, Pattoor, Alappuzha on March 19, 2021

Dr. Sini V Pillai, delivered talks in the webinar sessions: on Redefining Leadership: The transformation for Future as part of Expert Voices at Rajagiri School of Engineering and Technology (RSET) on 23rd January 2021; on Data to Informatics at Mohandas College of Engineering and Technology Trivandrum on

28-31 January 2021; on Prototyping Approach, Principles and Practices with Gamification hosted by Institute Innovation Cell at Ayyappa College for Women, TN on 6 March 2021; on the Role of Information System for Managers at Mohandas Institute of Management, Mohandas College of Engineering and Technology Trivandrum on 5<sup>th</sup> Feb 2021

Dr. Sumi S., Talk delivered to students of NSS Unit, E.K. Nayanar Memorial Government Polytechnic College, Thrikkarippur on 5th June 2021 in connection with the World Environment Day

### Patents Filed

Rani Santhakumari Amma, Muhammed Arif, Sneha Edla, Vishnu Vasantha Sivan, Abhijith Babu Kuttan Pillai, Ananthan Durgadutt Thampi, "A Green Cutting Fluid Emulsion Composition" Application No.201941031466 A dated 03/08/2019, The Patent Office Journal No. 06/2021

### Conferences/Webinars/ Seminars Organized

Jisha Gopi, CET SOM, Coordinated DTE sponsored FDP on Design Thinking for the faculty members of Govt Engineering Colleges and Polytechnic institutions of Kerala March 2021

The Department of Chemistry organized a DTE sponsored Two day online National Seminar on Emerging Trends in Chemical Science and Engineering on 26-27, February, 2021. Dr. Jiji C.V., Principal, delivered the Presidential address, Dr. M.L.P. Reddy, Retired Scientist, CSIR-NIIST inaugurated the seminar and delivered the Keynote address. The resource persons, Dr. Joshy Joseph, Dr. Krishnakumar B., Principal Scientists CSIR-NIIST; Ms. Temina Mary Robert, Dr. Bibin John, Scientists, VSSC; Dr. Muhammed Arif M., Associate Professor, Department of Chemistry, CET and Dr. Sujith

Kalluri, Assistant Professor, SRM University-Ap delivered invited lectures on various relevant topics. Dr. Rani Pavithran, Assistant Professor & Head, Department of Chemistry was the Organizing Secretary of the seminar.



Organizing committee of National Seminar held at Department of Chemistry

Dr. Sini V. Pillai, coordinated MDP on Operational Excellence Through Lean Six Sigma in Manufacturing and Services on March 17, 2021 under the auspices of CCE at CET for the benefit of Executives from Industry. The Programme was inaugurated by Dr. S.C. Sharma, Associate Director VSSC. Dr. Jiji CV presided over the function. The sessions were handled by Dr. Anand G, Professor, IIMK, Dr. P. R. Shalij, Dean Research, APJ Abdul Kalam Technological University and Dr. Sini V. Pillai, Faculty CET SoM.



Dr. Ajai Kumar G.I., Dr. Praveen Kumar T.K., Conducted Kerala State Softball Referees Clinic in collaboration with the Trivandrum District Softball Association, February 4-5, 2021






Dr. Ajai Kumar G.I., Dr. Praveen Kumar T.K., Conducted Softball camps for the Trivandrum District Softball Junior Women and Men team in collaboration with the Trivandrum District Softball Association; Conducted Gymnastics Judges Clinic in collaboration with the Trivandrum District Gymnastics Association



## RANK HOLDERS

### B. TECH 2017-21 BATCH TOPPERS

#### UNIVERSITY TOPPERS

				
<b>Abhishek Manoharan</b> Computer Science & Engineering	<b>Harikrishnan S</b> Mechanical Engineering	<b>Roshan John</b> Industrial Engineering	<b>Amulya B Nair</b> Applied Electronics & Instrumentation	<b>Saagara M B</b> Applied Electronics & Instrumentation

#### BRANCH TOPPERS

		
<b>Athulya K N</b> Civil Engineering	<b>Misha T M</b> Electronics & Communication Engineering	<b>Vishnu Vikraman Nair</b> Electrical & Electronics Engineering

## AWARDS AND ACHIEVEMENTS

### Department of Electrical Engineering

Sanjuna M. Mathew, Sreeja S., **Best paper Award** for Design and Implementation of Custom Built, Quarantine Service Mobile Robot Using Deep Learning and ROS, ACM/CSI/IEEECS Research & Industry Symposium on IoT Cloud For Societal Applications (IoTCloud'21), IIIT Kottayam, 3rd May 2021

### Department of Civil Engineering

Senthil P. Mathew , A. Sujatha, Yashida Nadir 'Bond Strength Properties of Confined and Unconfined Coconut Shell Aggregate Concrete by Beam Splice Test', **Best Paper Award** at International Conference on Innovative Trends in Engineering for Sustainability, January 9-11, 2021 jointly organized by Toc H Institute of Science & Technology and Odessa State Academy of Civil Engineering & Architecture, Ukraine.

### Ph.D. awarded

Kerala University awarded Ph.D. to Anitha Edison (EC) under the guidance of Dr. Jiji C.V., Principal, CET

Sivakumar R. (EC) acquired Ph.D. under the guidance of Dr. Renu John, IIT, Hyderabad

Kerala University awarded Ph.D. to Mr. Noorudeen M. under the guidance of Dr. Suresh Subramoniam, Director, CET SoM.

Kerala University awarded Ph.D. to Jeena R.S. under the guidance of Dr. Shiny G. and Dr. Sukeshkumar (EC, CET).

## EXTENSION ACTIVITY

### CET Oxymonitor

Pulse Oximeter was developed by College of Engineering Trivandrum on a war footing for use in covid care facilities with financial support from CETAA. On August 3, 100 CET-Oxy monitors were handed over to the Hon. Health Minister Smt. Veena George by the Principal Dr. Jiji C.V. The devices would be deployed in Government General Hospital, Trivandrum and other health care facilities.



CET-Oxymonitor - Pulse Oximeter from College of Engineering Trivandrum Development Team

### Team CET-oxymonitor

Alumni community- Mr. Mohammed Rabin (2015 AEI), Mr. Aaron Xavier (2019 EEE), Mr. Ganesh S. (2019 ME), Mr. Sashwat K. (2020 MCA), Mr. Akhil A.B. (2020 AEI), Mr. Adarsh S. (2020 ECE), Mr. Gibcen K. Baby (2018 EEE) and Mr. Rohil Nair (2021 AR). The alumni worked in sync with team led by Dr. Jiji C.V. (Principal) and Prof. Jayakrishnaraj G. (HoD, Electronics & Communication Engg.). Other faculty members of the team are Dr. Santhoshkumar S. (Dean Research), Dr. Biji Jacob (Professor, ECE), Dr. James T.G. (Professor, ECE), Dr. Binu L.S. (Associate Professor, ECE), Prof. Ajith R.R. (Associate Professor, ME), Prof. Joaquim Ignatious Monteiro (Assistant Professor, ECE), Prof. Lalu V. (Assistant Professor, ECE), Dr. Vikas V.K. (Assistant Professor, ME), Prof. Shafeek M. (Assistant Professor, ME) and Mr. Joy P. (Workshop Instructor, ECE).



Covid Care Service Robot

### Covid Care Service Robot

Autonomous Covid Care Service Robot was developed by M.Tech. Robotics students to aid health workers under the guidance of Dr. S. Sreeja and handed over to Medical College Hospital Trivandrum. Team members: Sanjuna Mariam Mathews, Ajmal M., Arun Shankar M., Harikrishnan K., Rojin, Dr. Sreeja S.

### Other Activities

#### Department of Architecture:

**Dr. Shailaja Nair :** Training for Barrier Free Built Environments for Social Justice Department

**Dr. Shailaja Nair :** Establishment of Barrier Free Consultancy Cell under the Social Justice Department

**Dr. Shailaja Nair, Dr. Priyanjali Prabhakaran:** Preparation of layout plans for Pamba and Sannidhanam for Travancore Dewaswom Board

**Dr. Sheeja K.P., Dr. Bejene S. Kothari, Aju R. :** Preparation of Master plan for the development of Sivagiri Mutt and its branch organisations at Kunnumpara, Aruvippuram and Chempazhanthu, sponsored by SNDST, 2019-2021

**Smitha M.V. :** An Assessment of Vulnerability of Fishermen community towards coastal hazards' APJKTU-CERD- Research Seed Money (RSM) Project, 2020-23

#### Department of Civil Engineering :

**Dr. Sumi S :** Prepared Program content for an environment awareness program, HARITHA JEEVANAM, broadcast in All India Radio Ananthapuri FM for 3 episodes - February 18th, March 18th and April 15th.

Topic - Green buildings

## CET Alumni Association (CETAA) Activities



### CETAA

Started in 1976 by the veterans and eminent alumni, Dr. C. P. Kuriakose, Dr. R. Ravikumar, Dr. J. Inayatulla, Dr. A. Kulathu Iyer and Dr. K. P. P. Pillai. CETAA has grown ever since and now it has more than 48,000 members holding key positions in different parts of the world. Major events co-ordinated by CETAA are

#### **Skill Development Programs for Students, CETAA Clubs / Finishing Programs / Internships / Webinars**

During the pandemic, CETAA made use of video conferencing facilities to reach out to its alumni all over the world and request them to contribute to CET in the form of sharing their knowledge and expertise. This eventually resulted in the formation of various clubs and finishing programmes under the initiative of the alumni, supported by the faculty members and run by the students of CET

#### **Student Support Programs of CETAA GEMS Scholarship**

Growing Engineers Monetary Support (GEMS) instituted under CETAA selected and provided scholarship to 63 students in 2020-2021

#### **CETAA GOLD**

Growing Opportunity for Leadership Development (GOLD) is a scheme to support Management students at CET School of Management.

#### **CETAA Endowment Awards**

CETAA distributed 76 endowment awards in a grand online function on 20 November 2020

#### **CARE Scholarship**

Continuous Assistance for Rising Engineers (CARE) is envisaged as a one-to-one sponsorship scheme for students where an alumnus / a group of alumni will be looking after the financial needs of a student during his/her academic tenure at CET. 12 students have benefitted from the scheme last year

#### **COVID Relief Activities**

During the pandemic situation CETAA was instrumental in helping the needy including the frontline workers. Donations from various batches and Chapters were collected adding up to an amount of Rs. 11,85,538 and disbursed.





# RETIREMENT

## Civil



Dr. MINI SOMAN



Dr. SINDHU G



Prof. B THULASEEDHARAN NAIR



Dr. PRABHAKUMARI K. S



Prof. JAYPRAKASH  
JAIN KG



Dr. JAIRAJ P.G.

## Mechanical



Dr. S JAYAKUMAR



Dr. ANIL LALS



Dr. N ASOK KUMAR



Prof. A. FAROOK



Prof. SUMESH V

## Architecture



Dr. SHEEJA K P

## Electrical



Dr. SREEJAYA P



Dr. WAHEEDA BEEVIM

## Electronics & communication



Prof. JAYAKRISHNARAJ G



Prof. AMBY A. K



Prof. SASIKUMAR V.V



Dr. JAMES T.G

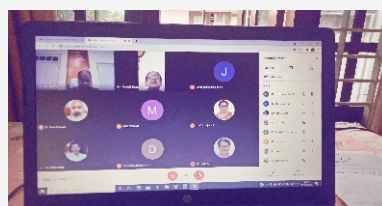
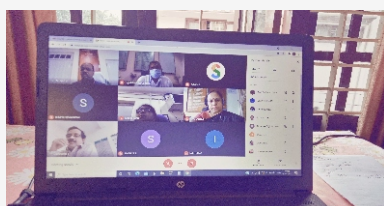
## Mathamatics



Dr. P. S. RAJENDRAN



Prof. GANESH N



The College Council convened a special meeting on 31st May, 2021  
in online mode for felicitating the retiring faculty.



# Beautification of CET campus

Campus beautification and green protocol committee was constituted in January 2021 with Prof. Jayakrishnaraj G., HoD ECE as the convener and one faculty from each department as member.





## SOCIAL OUTREACH ACTIVITIES

### Subhikshakeralam

During the COVID-19 crisis, the Government of Kerala implemented various action plans with public participation in order to achieve self-sufficiency in food production in the state 'Subhiksha Keralam' scheme aims at large scale production of paddy, fruits, vegetables, tubers, grains and legumes as part of achieving self-sufficiency. CET also started the Subhiksha Keralam Scheme with the help of the Department of Agriculture, Kerala in 6 acres of its land.



### NSS

#### Braids of hope

The NSS CET unit, in association with APJAKTU NSS Cell, organized a hair donation event on May 10. The donations were handed over to Miracle Charitable Association, a charity group that makes cancer patients avail wigs free of cost. This event remains well-received and there by able to hold out hope to the ones who are fighting the battle of cancer.

**Rudhiram-** is an initiative by KTU NSS BLOOD CELL which aims at 100 blood donation camps with the support of NSS Units of various engineering colleges throughout Kerala. The Rudhiram was inaugurated by Dr. Rajasree M.S., Vice Chancellor, KTU and Dr. S. Ayoob, Pro Vice Chancellor, KTU on 12th April 2021 and marked its first blood donation camp on the same day at KTU University Block, Trivandrum. It was organised by NSS units of CET and NSS College of Engineering, Palakkad. About 32 volunteers donated blood from 51 registrations.





# Obituary



**JAIMON CLETUS**  
Assistant Professor  
Department of ME



**Dr. AJEENA BEEGUM**  
Associate Professor  
Department of CSE



**JAIJITH**  
Assistant Professor  
Department of EEE

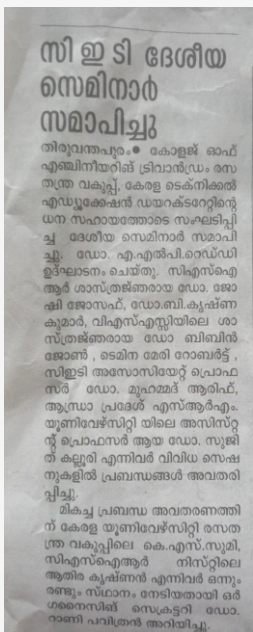
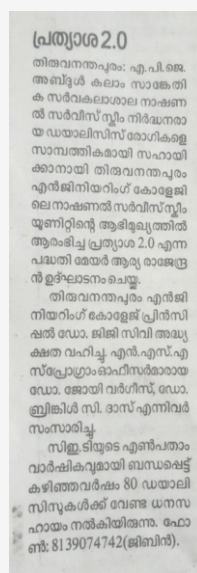


**GOVIND V M**  
S4 Civil



**CHAITHANIA T**  
S4 Civil

## CET in News



## START-UPS AND PLACEMENTS

### College of Engineering Technology Business Incubation centre

CET TBI started on 2013 with prime mottoes of assisting prospective entrepreneurs in nurturing their technology ideas, to promote innovation among budding engineers educated by the institution and to act as a forum for industries and organizations to benefit from the intellectual, instructional and hi-tech infrastructure of CET. Currently the facility is incubating 11 startups companies from various fields like Sustainable urbanization, Renewable Energy & Energy management, Urban waste management, Artificial intelligence etc.

### CET Placements Excels amid Pandemic

- College of Engineering Trivandrum (CET) has achieved remarkable milestone in the placements, amid the pandemic period. Students of CET received more than 850 offers during academic year 2020-21. 561 students were placed during the year. In spite of the pandemic, the year 2020-21 has also seen an upsurge in the number of companies wherein more than 100 companies approached CET for recruitments. Main highlight of the current year placements was that all the placement related events were conducted virtually.
- Prominent companies from different sectors that recruited from CET during 2021 include Texas Instruments, Amadeus, Open Silicon, Oracle, Providence, Analog Devices, Deloitte, Bosch, ABB, Ford, MRF, CEAT, Open FinTech, Royal Enfield, Saint Gobain, Wipro, TCS, Infosys, Capgemini, Cognizant, Accenture, UST Global, IBS, Vanenburg, Varroc, Wabcos, South Indian Bank.
- Highest package of 16 lpa was offered to 5 students of CSE (Abhishek Manoharan, Abhishek S, Akhila C K, Arya Vinodan and Haseena Hassan) by Providence, one of the largest health systems in United States.
- Second highest package of 15 lpa was offered to 9 students of CSE by Cloudwick, an AWS certified Advanced consulting partner. Average salary packages have also shown an increase over the previous years.