

# the newsletter

FOR PRIVATE CIRCULATION ONLY • HALF-YEARLY • JAN - JUNE 2021 • OFFICIAL NEWSLETTER OF SJ CET PALAI



**ST. JOSEPH'S**  
COLLEGE OF ENGINEERING  
AND TECHNOLOGY,  
- PALAI -



OWNED & MANAGED BY THE CATHOLIC DIOCESE OF PALAI | AN ISO 9001 : 2015 CERTIFIED COLLEGE | APPROVED BY AICTE  
AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM



# the **newsletter**

JAN-JUNE 2021



# The News, *Delivered.*



## VISION

Developing into a world-class, pace-setting Institute of Engineering and Technology with distinct identity and character, meeting the goals and aspirations of the society.

## MISSION

- To maintain a conducive infrastructure and learning environment for world class education.
- To nurture a team of dedicated, competent and research oriented faculty.
- To develop students with moral & ethical values, for their successful career by offering variety of programmes and services.



## NEWS FROM FACULTY

### PAPERS PRESENTED / PUBLISHED / ACCEPTED

#### *Department of Civil Engineering*

##### **Patent Received**

Prof. Ance Mathew, HOD, Department of Civil Engineering has received a patent titled: “*The influence of different treatments applied to flax fibres on different properties of mortar reinforced by these fibres*”. The discovery deals with the addition of treated flax fibres to improve the rheological and mechanical properties of mortar. She invented three treatment solutions for flax fibre, viz.: atmospheric plasma, mineral cement/slag coating, and linseed oil coating.

#### *Department of Computer Science & Engineering*

1. Prof. Prince V. Jose published a paper titled “DIBSM: Dominance on Incomplete Big Data Using Scoring Method” Springer, volume 59 pp 1-12, in 2021.
2. Prof. Prince V Jose published a paper titled “Recent developments in the cyber-physical system” in IEEE Explore 2021.
3. Dr. Joby P. P. published a paper titled “Speech emotion recognition using data augmentation” in the International Journal of Speech Technology, 2021.
4. Dr. Praseetha V. M., published a paper titled “Speech emotion recognition using data augmentation” in the International Journal of Speech Technology, 2021.
5. Prof. Kishore Sebastian published a paper titled “Computer-Aided Detection of Lung cysts using Convolutional Neural Network (CNN)” in the Turkish Journal of Physiotherapy and Rehabilitation, 2021.

1. Prof. Ashly Thomas published a paper titled "Ignis: Fire Detection and Mitigation System" in the International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 06, June 2021
2. Prof. Ashly Thomas published a paper titled "IOT Assisted Electronic Device Controlling System" in the "Transactions on Innovations in Science & Technology", Volume.5, Issue.1, pp.189-19, 2021.
3. Dr. Praseetha V. M. published a paper titled "A Systematic Survey on Comparison of Different Prediction Methods and Crime Analysis" in the International Virtual Conference, "Recent Innovations in Science and Technology (RIST 2021)" conducted on 19th and 20th June 2021 by ERANAD Knowledge City Technical Campus, Malappuram, Kerala.
4. Prof. Bino Thomas published a paper titled "Review On Lightweight Cryptographic Methods For Resource-Constrained Devices" in the International Virtual Conference "Recent Innovations in Science Technology (RIST 2021)" conducted on 19th & 20th June 2021 by ERANAD Knowledge city Technical campus, Malappuram, Kerala.
5. Dr. Joby P. P. published a paper titled "REVIEW ON FACIAL EXPRESSION RECOGNITION METHODS" (PAPER-ID: RIST-CS-160) in the International Virtual Conference, Recent Innovations in Science Technology (RIST 2021) conducted on 19th and 20th June 2021 by ERANAD Knowledge city Technical campus, Malappuram, Kerala.
6. Prof. Suma R. published a paper titled "An Effective Comparison of Facial Expression Recognition Methods Based on the Occluded Images – A Survey" in the International Virtual Conference "Recent Innovations in Science Technology (RIST 2021)" Conducted on 19th & 20th June 2021 by ERANAD Knowledge City Technical Campus, Malappuram.

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### ***Department of Electronics and Communication Engineering***

1. Dr. Arun P, Dept of ECE published a paper titled "Statistical Significance of Wilson Amplitude Towards the Identification and Classification of Murmur from Phonocardiogram" in the International Conference on Data Analytics & Management: An Indo-European Conference (ICDAM-2021) organized by PIET University, Delhi on 25th to 26th June 2021.
2. Prof. Jacob Thomas, Akhil S. Nair, Alan Sigi, Amrutha Karthikeyan and Devanarayanan published titled "IoT Based Neonate Incubator" International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 06, June 2021
3. Dr. Arun P., Dept of ECE presented a paper titled "Statistical Significance of Wilson Amplitude Towards the Identification and Classification of Murmur from Phonocardiogram", Lecture Notes on Data Engineering and Communication Technologies, Springer, June 2021.

4. Prof. Deepa Abraham, Dept of ECE presented a paper on "Implementation of Sparse Ramanujan Sequence (SRS) based transforms in FPGA," in IEEE International Conference on Communication, Control and Information Sciences (ICCISc-2021) from 16 to 18 June 2021, organized by Govt. Engineering College, Idukki.

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### ***Department of Electrical and Electronics Engineering***

1. Tomson Thomas, Prince Asok published a paper entitled "Event analysis and real-time validation of doubly fed induction generator-based wind energy system with grid reactive power exchange under sub-synchronous and super-synchronous modes" in Engineering Reports, John Wiley & Sons, Ltd., 2020; e12282. <https://doi.org/10.1002/eng2.12282>
2. Ginu Ann George, Fossy Mary Chacko, Prince Asok. et al. published a paper entitled "Integrated fuzzy-based modular cell balancing using mono circuitry for electric vehicle applications". Electrical Eng 103, 153–165 (2021). <https://doi.org/10.1007/s00202-020-01068-6>
3. Prince Asok, Ginu Ann George published a paper entitled "An Introduction to Wind Energy Conversion System with Low Voltage Ride-Through Capability", in a research book Advanced Aspects of Engineering Research Vol. 9, 7 May 2021, Page 112- 122, Edited by Dr. Salisu Muhammad Lawan.
4. Ginu Ann George , , Prince Asok, M. V. Jayan published a paper entitled "Charge Equalization of Battery System Considering State of Charge Variations in Electric Vehicle Application", Advanced Aspects of Engineering Research Vol. 10, 29 April 2021, Page 26-33
5. Dr. Shancy Augustine of Dept. of Electrical Engineering and Dr. Lijo Paul of Dept. of Mechanical Engineering had published inter-department research on " Relevance of micromachining in microfluidics and biomedical devices " as a chapter in Advanced Machining and Finishing published by Elsevier.

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### ***Department of Electronics and Instrumentation Engineering***

1. Ms. Rashmi Annamma George published the paper "Modelling of Electrocardiogram Using Autoregressive Moving Average Model and Linear Predictive Coefficient, A Comparative Study" at the Seventh International Conference, Biosignals, Images, and Instrumentation from 25 to 27th March 2021.

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### ***Department of Mechanical Engineering***

1. Dr. Jeeno Mathew, Asst. Professor, Dept. of ME has published a paper – "A Mathematical and Heuristic Approach for Scheduling Repetitive Projects in a Bi-Objective Single Crew Model".
2. Dr. B Girinath published a paper in an International

Journal Simulation titled - "A modified version of Matlab application window for predicting the weld bead profile and stress-strain plot of AA5052 CMT weldment using ER4043", by Sage publications.

3. Dr. Lijo Paul of Dept. of Mechanical Engineering and Dr. Shancy Augustine of Dept. of Electrical Engineering published inter-department research on "Relevance of micro-machining in microfluidics and biomedical devices" as a chapter in Advanced Machining and Finishing published by Elsevier.

4. Dr. Lijo Paul and Dr. Jilse Sebastian authored a chapter in the Book "Sustainable Manufacturing (Handbook in Advanced Manufacturing) published by Elsevier Publications. Title: Plastic Recycling and regeneration, Chapter

5. Dr. Lijo Paul published a technical paper in International Journal Silicon, by Springer Publications titled, Model prediction and experimental study of material removal rate in micro ECDM process on borosilicate glass.

6. Mr. Bony John has published a technical paper, titled "Sizing and techno-economic analysis of hydrokinetic turbine-based standalone hybrid energy system", in International Journal Energy by Elsevier Publications.

### ***Master of Computer Applications***

1. Ms. Liz George published a paper titled A comparative study of Zero Knowledge Proof and Homomorphic Encryption in Guaranteeing Data Privacy in Blockchain Applications in International Journal of Advanced Research, Volume 9; 2 Feb 2021.

2. Ms. Liz George published a paper titled Scrutinizing the Progress of Homomorphic Encryption Scheme in guaranteeing Data Privacy in International Journal of Innovative Science & Research Technology, Volume 6; 1 Jan 2021.

### ***Master of Business Administration***

1. Prof. Rosin C. Jacob has published a paper titled "Adoption of Fintech services: A study among consumers of India" in Conference proceedings, IIM Kozhikode.

2. Prof. Elma Joseph has published a paper on "The Impact of Working from Home During COVID-19 on Work and Life Domains: A Descriptive Study on Central Kerala" in Ahalia International Journal of Advanced Science and Technology, Volume 1, Issue 2, April-June 2021.

3. Prof. Dawn Jose published a paper in Conference Proceedings, IIM Kozhikode on "Social Media Marketing and Consumer Adoption- A comparative assessment of the effect of select Social Media Platforms on Consumer Adoption among youth in Kerala". ISBN:978-93-5419-748-2., <https://www.iimk.ac.in/research/markconf20>

4. Prof. Dawn Jose published a paper on "Social commerce and consumer adoption – an investigation into the cognitive

decision-making process of millennials" in Journal of the Maharaja Sayajirao University of Baroda, 2021, ISSN 0025-0422, Vol 55, Issue 1.

5. Prof. Dawn Jose published a paper on "Social media marketing (SMM) and consumer adoption (CA) a study among youth in Kerala" in Wesleyan Journal of Research, 2021, ISSN 0975-1386, Volume 14, No 01 (IV), January -March 2021.

6. Prof. Dawn Jose did a conference presentation on "COVID 19 - A blessing in disguise for Social Commerce in India" in an International Marketing Conference at IIM Bodhgaya on April 24, 2021.

7. Dr. Suma Mathew has done a conference presentation titled "A Study on New Phase in Education due to Covid 19 - with special reference to Idukki District" at the 4th Rajagiri National Conference — New Paradigms in Management - "Carving Out a New Future: Resilience & Recovery", held on 19th January 2021.



## **NEWS FROM DEPARTMENTS**

### ***Department of Civil Engineering***

#### **1. Watershed and River Basin Management**

A presentation on the concept of watershed and river basin management with special reference to the Manimala river was carried out on 04/01/2021 by Er. S. Deepa, Assistant Executive Engineer, Irrigation Department, Government of Kerala. The importance of watershed type planning required for water resource planning was explained in a systematic manner to the students and staff of the civil engineering department.

Further, the criterion and approach to be followed for the pollution abatement planning of the Manimala river were explained. The survey works that can be carried out in the Manimala river for the preparation of a detailed project report for the same was also explained. The students got a good idea regarding the procedure to be followed in such case studies and field executions.



### 2. Prospects and Importance of Harithakeralam

An expert talk was delivered by Mr. P. Ramesh, District Coordinator of Harithakeralam, a government of Kerala undertaking for the improvement of the various life activities of the common people by way of clean and green initiatives. The idea and practicing of the same were explained to the students of Civil engineering by a special talk on 05/01/2021 followed by a demonstration and class on 26/02/2021.

The detailed classes and demonstrations paved way for understanding the importance of keeping the areas clean, water conservation measures, and the bad effects of burning plastic items. The idea of reducing the usage, recycling, and recovering water was also given to the students.



### WEBINARS/ SEMINARS CONDUCTED

1. Department of Civil Engineering, SJCT Palai organized a Webinar on "PRECAST BUILDING SYSTEMS" for Final year Civil Engineering students on 23rd April 2021(Friday) at 10.00 am.

Resource Person: Er. Mathew Jose Jin, (Asst. Engineer, Metro IC, L&T Constructions Chennai) **Webinar Platform: Zoom Meeting**

2. Department of Civil Engineering, SJCT Palai, in association with DH Academy organized a webinar on the topic "JOURNEY THROUGH CONCRETE" on May 26th (Wednesday), 2021 from 11.30 am to 01.00 pm.

Resource Person: Er. Shyju Nair, CEO, DH Academy **Webinar Platform: Zoom Meeting**

3. Department of Civil Engineering, SJCT Palai organized an expert talk on "HONE YOUR EXCEL SKILLS" on 23 April 2021(Friday) at 2:00-3:00 PM

Resource person: Professor Sarju S., Department of CSE, SJCT Palai , **Virtual Platform: Google Meet**

### Department of Computer Science & Engineering

1. One-week online Faculty Development Programme on Practical Data Science - from 19.07.2021 to 23.07.2021, was organized by the Department of CSE, SJCT, Palai. Sponsored by APJ Abdul Kalam Technological University.

2. International Conference on IoT Based Control Networks & Intelligent Systems-ICICNIS 2021.

### Department of Electronics and Communication Engineering

1. The department of ECE conducted a six-day AICTE-sponsored STTP on "IoT Data Science" from 28/12/2020 to 2/1/2021. Around 250 registrations were received for the program out of which 100 registrations were accepted. Delegates from various research institutes and industries handled the various sessions in the program.

2. Student Association (ECSA) under the department of ECE conducted a webinar on "What is after B. Tech?" on 18th May 2021. Resource persons were Mr. T. Nithin, Mr. Agin Paul, and Mr. Sanjay AS.

3. Student Association (ECSA) under the department of ECE arranged an online expert talk by alumni on "How can a person nurture the possibility of entrepreneurship as a career" on 29th May 2021 by resource person Mr. Abin George, Reizend Retail & Healthcare.

4. Student Association (ECSA) under the department of ECE conducted an online expert talk on "Security in Social Media" on 12th June 2021.

5. Student Association (ECSA) under the department of ECE conducted an online Idea competition "n- Cov IDEA" for 12th standard students on 15th June 2021

### Department of Electrical and Electronics Engineering

1. EEE department of SJCT Palai organized a Webinar on "Scope of MEP & Electrical supervisor license", MTTC International LLC on 5-6-21.

2. EEE department of SJCT Palai organized Webinar on "Upskill in Emerging Technologies" on 04/05/2021.

3. The Electrical Consultancy division of the EEE Department takes a lead role in the implementation of a 210kW solar power plant in the College.



**Department of Mechanical Engineering**

1. On 28 June 2021 on TeX Season 2 | \_Episode 3, a talk series organized by MEA, ASME and SAE of Dept of ME, SJ CET, the real-life experience of a lady Loco pilot, "Life of a lady Locopilot - My story" by Mrs. Lekha L was conducted.
2. On 26 June 2021 on TeX Season 2 | \_Episode 2, a talk series organized by MEA, ASME and SAE of Dept of ME, SJ CET, Experience Positive Vibes with RJ M3, Dr. Merin Mariam Mathews was conducted.
3. On 26 June 2021 on TeX Season 2 | \_Episode 1, a talk series organized together by MEA, ASME and SAE of Dept of ME, SJ CET Episode 1: B. Tech to UPSC Finals - A Journey, talk by Mr. Arjun Krish was conducted.
4. On 17th June, a webinar on Stages of Startup Development was conducted by Dept. of ME. The resource person was Mr. Digo Joseph Sebastian, CEO, AIC IIIT Kottayam.
5. On 8th June 2021, a Webinar on an Overview of HMT Machine Tool Ltd., A machine Tool Industry. The resource person was Mr. Linto P Abraham, Design Engineer, HMT Machine Tool Ltd. Kalamassery.

**Master of Computer Applications**

1. Department has conducted a one-week orientation programme for MCA aspirants to prepare for the MCA LBS Entrance examination.

**Master of Business Administration**

1. A placement workshop was conducted for MBA 2019-21 batch by Dr. Saji Abraham (Head- Placements, SJ CET), Dr. Suma Mathew (Faculty Coordinator), Ms. Anudita Pateria (Ex- HR, Patni Computers Ltd), and Mr. Freddy Francis (HR, ESAF Bank) on 18th January 2021.
2. Another placement workshop was conducted for MBA 2019-21 batch by Mr. Jayesh (99% lier in CAT, Cleared IAS exams twice, Mining machinery engineer- NIT Raipur, Harvard MBA, having industry experience in senior positions of Coal India, Caterpillar, English Indian Clays) on 25th January 2021.
3. Conducted a training on Business Plan preparation by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, on 8th March, 2021.
4. Ms. Minu Leo, Resource person of Securities Exchange Board of India (SEBI) conducted an online 'Financial Awareness Programme', exclusively for us at St. Joseph's Business School on 25th March, 2021.
5. A three-day online training program on Gender Equality, Climate change and Sustainable Development Goals was organized by National Institute of Disaster Management (NIDM) and Impact and Policy Research Institute (IMPRI), New Delhi, from 27th to 29th May 2021.

6. Students of St. Joseph's Business School attended an online Facebook Marketing Workshop by One Team Solutions, on 29th May, 2021.
7. An expert talk on 'Developing and Implementing Marketing Strategies' was conducted on 22nd June, 2021, for the marketing specialization group to help them connect their theory with the practical wisdom of the resource person Mr. Joseph Sebastian, Co-Founder of WOPT Solutions Pvt. Ltd.
8. Contact classes for the 15th MBA batch of St. Joseph's Business School (2020-2022) was formally inaugurated on 22nd February at SJ CET, Palai. The ceremony was attended by the new batch of students along with the Chairman, Manager, Principal, Vice-principal and MBA faculty.



9. The students, faculty members and alumni of St Joseph's Business School completed 545 Coursera courses during the pandemic period, starting from April 2020 till February 2021.
10. St. Joseph's Business School, Palai conducted an intercollegiate virtual Environment Day Celebration by organizing different competitions related to Environment. Cash prizes were awarded to the winners.
11. Mock interviews were conducted for the passing out MBA batch 2019-21, on 13th to 17th April 2021. Mr. Subash Abraham, CEO, Pooja Tours & Travels chaired the interview board and was joined by the faculty members of St. Joseph's Business School. This initiative was to help them reenergize themselves in their journey and most students scored very high, as per industry standards.



## ACADEMIC ACHIEVEMENTS (STAFF MEMBERS)

### *Department of Civil Engineering*

#### **Harithakeralam Mission**

Dr. K.J. George Professor of Civil Engineering,  
Harithakeralam - College Coordinator

**SJCET Palai received letter of appreciation from Haritha Keralam Mission, Govt. of Kerala** for our commendable initiatives in waste management, food safety, protection of water resources and energy conservation.

1. Dr. K.J. George attended APJAKTU sponsored online FDP in Forensics in Civil Engineering organized by Department of Civil Engineering, AISAT, 15th -19th March 2021

2. Fr. Dr. Bennet Kuriakose attended online FDP in Recent advances in wind load analysis of structures organised by Department of Civil Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram from 7th to 11th June, 2021.

3. Mr. Jose James attended AICTE sponsored online STTP in Guidance and Counselling, organised by St. Joseph's College of Engineering & Technology, 08-13th February 2021

4. Ms. Asha Alice Kulavattom attended online FDP in Recent advances in wind load analysis of structures organised by Department of Civil Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram from 7th to 11th June, 2021

5. Ms. Asha Alice Kulavattom attended APJAKTU sponsored online FDP in Forensics in Civil Engineering organised by Department of Civil Engineering, AISAT, 15th -19th March 2021

6. Ms. Asha Alice Kulavattom attended AICTE sponsored online STTP in Guidance and Counselling organised by St. Joseph's College of Engineering & Technology, 08-13th February 2021

7. Mr. Austin T Sabu attended AICTE sponsored online STTP in Guidance and Counselling organized by St. Joseph's College of Engineering & Technology, 08-13th February 2021

8. Ms. Deepa Joseph attended AICTE sponsored online STTP in Guidance and Counselling organized by St. Joseph's College of Engineering & Technology, 08-13th February 2021

9. Ms. Neethu Joseph attended AICTE sponsored online STTP in Guidance and Counselling organized by

St. Joseph's College of Engineering & Technology, 08-13th February 2021

10. Ms. Neethu Joseph attended APJAKTU sponsored online FDP in Construction Industry-Present and future trends organized by Department of Civil Engineering, FISAT, 21st- 26th June 2021.

11. Ms. Neethu Joseph attended APJAKTU sponsored online FDP in Forensics in Civil Engineering organized by Department of Civil Engineering, AISAT, 15th -19th March 2021

12. Ms. Mariamol Kuriakose attended APJAKTU sponsored online FDP in Forensics in Civil Engineering organized by Department of Civil Engineering, AISAT, 15th -19th March 2021

13. Ms. Rakhi Elizabeth Thankachan attended online FDP in Recent advances in wind load analysis of structures organized by Department of Civil Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram from 7th to 11th June, 2021.

14. Ms. Rakhi Elizabeth Thankachan attended NSIC STAAD. Pro training, 2021

15. Ms. Rakhi Elizabeth Thankachan attended AICTE sponsored online STTP in Guidance and Counselling organised by St. Joseph's College of Engineering & Technology, 08-13th February 2021

16. Ms. D. Dalmiya Rajan attended APJAKTU sponsored online FDP in Forensics in Civil Engineering organized by Department of Civil Engineering, AISAT, 15th -19th March 2021

17. Ms. D. Dalmiya Rajan attended online FDP in Recent advances in wind load analysis of structures organized by Department of Civil Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram from 7 to 11 June, 2021.

18. Ms. D. Dalmiya Rajan attended AICTE sponsored online STTP in Guidance and Counselling organised by St. Joseph's College of Engineering & Technology, 08-13th February 2021

19. Ms. Jinta John attended online FDP in Recent advances in wind load analysis of structures organized by Department of Civil Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram from 7 to 11 June, 2021.

20. Ms. Ancy P Reji attended online FDP in Recent advances in wind load analysis of structures organized by Department of Civil Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram from 7 to 11 June, 2021.

### *Department of Computer Science & Engineering* **NPTEL**

1. Dr. Praseetha V M - Successfully completed 8 weeks



NPTEL Online Certification on Machine Learning Feb-Apr 2021.

2. Prof. Angitha George- Successfully completed the NPTEL certification on the "Machine Learning" 8-week course from Feb-April 2021.
3. Prof. Smitha Jacob - Successfully completed the NPTEL certification on "Cloud Computing and Distributed Systems" 8-week course from Jan-Mar 2021.
4. Prof. Divya Sunny - Successfully completed the NPTEL certification on the "Machine Learning" 8-week course from Feb-April 2021.
5. Prof. Mereen Thomas Vadakkal - Completed the NPTEL certification on "Cloud Computing and Distributed Systems" 8-week course from Jan-Mar 2021.
6. Prof. Alphonsa Johny - Successfully completed the NPTEL certification on "Data Science for Engineers" 8-week course from Jan-Mar 2021.

#### **Oracle Academy**

1. Prof. Sarju S - Completed Database Foundations Course Conducted Oracle Academy on 14th May 2021
2. Prof. Smitha Jacob - Successfully completed the online certification on "Java Programming" by Oracle Academy by 12th May 2021.

#### **Events Organized/others**

1. Prof. Sarju S - Selected as a GitHub Campus programme administrator by GitHub on May 2021.
2. Prof. Sarju S - Selected as a Microsoft Learn Programme Advisor on 3rd June 2021.
3. Prof. Sarju S - Selected as an Evaluation Member of Young Innovators Programme 2020 by Kerala Development and Innovation Strategic Council (K-DISC) from 9th-20th June 2021.
4. Prof. Sarju S – worked as an evaluation panel member for "The Final Year Project Award" in Software Stream powered by Genskill in association with IEEE Kerala Session.
5. Prof. Bino Thomas - Guided a project which won first prize in "The Final Year Project Award" in Software Stream powered by Genskill in association with IEEE.
6. Dr. Praseetha V M - Coordinated five-day Online Faculty Development Programme Learning Management System -Moodle from 10.08.2020 to 15.08.2020, organized by Department of CSE, SJ CET, Palai.
7. Prof. Smitha Jacob - Selected as a KTU Syllabus Setter -2019 Regulation for three Computer Science & Engineering Subjects.
8. Prof. Bino Thomas - Organized webinar on "Introduction to Immersive Technology" in association with

CSI Chapter of SJ CET, Palai on 2nd January 2021.

9. Prof. Jibin Philip - Successfully completed one day webinar on "Statistical tools in Research" February 2021.
10. Prof. Ashly Thomas - Got Ph.D. Admission (Part-time) under KTU during the academic year 2020-2021.

#### **Department of Electronics and Communication Engineering**

1. Prof. Dr. V.P Devassia attended a training program on "Research Training" Conducted by MSME, Technology Development Centre, Agra, Government of India, 17th May to 21st May 2021
2. Dr. Arun P, Dept of ECE successfully completed the NPTEL online certification MOOC course on Introduction to IoT from Jan- April 2021 (12 weeks) by IIT Kharagpur.
3. Dr. Arun P, Dept of ECE successfully completed the NPTEL online certification MOOC course on Electronics Equipment Integration and Prototype Building from Jan-March 2021 (8 weeks) by IISc Bangalore.
4. Dr. Arun P, Dept of ECE attended a five days AICTE Training and Learning (ATAL) online workshops on the title "Cybersecurity", from 1 to 5 February 2021 at Central University of Kerala, Kerala.
5. Prof. Sreesh P. R, Dept of ECE attended AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence in Revolutionizing Healthcare" from 2021-07-19 to 2021-07-23 at National Institute of Technology Puducherry, Karaikal.
6. Prof. Sunitha S. Pillai, Dept. of ECE attended the AICTE-sponsored STTP on Guidance and Counselling organized by St. Joseph's College of Engineering and Technology, Palai from 8 to 13 February.
7. Prof. Manju James, Dept. of ECE attended an AICTE sponsored QIP Short Term Course on Digital Communication & Communication Network from 14 to 25 June 2021, organized by the School of Electrical Sciences IIT, Bhubaneswar.
8. Prof. Manju James and Prof Soya Treasa Jose, Dept. of ECE attended a training program for "Pattern Recognition for Speech Signal Processing" organized by GEC, Kozhikode from 15/3/2021 to 20/3/2021.
9. Prof. Manju James, Dept. of EC successfully completed the Python training Course conducted from 26-04-2021 to 12-05-2021 by Amrita TBI, Amrita Vishwa Vidyapeetham.
10. Prof Juney M George, Dept. of ECE attended the AICTE sponsored STTP on "Research Aspects on Deep Learning in Image and Video Processing - I" Organized by the Department of Electronics and Communication Engineering, Velammal Institute of Technology held from 04.01.2021 to 09.01.2021.
11. Prof Juney M George attended TEQIP-II sponsored FDP on Embedded Systems organized by the department of

ECE College of Engineering, Kidangoor from 3 to 6 March 2021.

12. Prof. Soya Treasa Jose, Dept. of ECE participated in the TEQIP –II Sponsored FDP on EMBEDDED SYSTEMS organized by Dept. of Electronics and Communication Engineering from 3 to 6 March 2021.

13. Prof. Soya Treasa Jose, Dept. of ECE participated in the Five-Day Online Short-Term Training Program on VLSI Architectures for Digital Signal Processing Systems (VADSPS-21) from 14 to 18 June 2021, organized by the Department of Electronics and Communication Engineering, National Institute of Technology Calicut, Kozhikode.

14. Prof. Anu Jyothy, Dept of ECE attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Cyber Security: A step towards awareness to Cyber Crime" from 14 to 18 June 2021 at AJMER Engineering College.

15. Prof. Sunitha S. Pillai and Prof. Anu Jyothy, Dept of ECE attended TEQIP =II sponsored FDP on "Constitution of India" organized by dept of ECE, Musaliar college, Kollam from 15/3/2021 to 20/3/2021.

16. Prof. Anu Jyothy, Dept of ECE attended AICTE sponsored online STTP on Outcome Based Education with Assessment and Evaluation from 9 to 16 November 2020 at Sahridaya College of Engineering and Technology, Kodakara, Thrissur, Kerala.

17. Prof Shilpa Lizbeth, Dept of ECE attended AICTE sponsored five-day STTP on Big Data in IoT organized by Dept. of Computer Science & Engineering, College of Engineering, Karunagapally from 8 to 12 February 2021.

18. Prof Shilpa Lizbeth, Dept of ECE attended one-week FDP on "Machine learning and its Mathematical Foundation" organized by dept. of CSE, Vimal Jyothy Engineering College, Kannur from 2 to 6 March 2021.

19. Prof Sreesh P.R., Prof. Sunitha S. Pillai, Prof. Juney M. George, Prof. Manju James, Prof. Rincy Varkey, Prof. Nitha M Biju, Prof. Soya Treasa Jose, Prof. Anto Manuel and Prof. Shilpa Lizbeth have attended the AICTE sponsored STTP on "IoT Data Science" from 28/12/202 to 2/1/2021 organized by Dept. of ECE, SJCTET, Palai.

### ***Department of Electrical and Electronics Engineering***

1. Ms. Ginu Ann George served as a reviewer for International Conference on Emerging Trends in Engineering Science and Technology (ICETEST 2020), at GEC Thrissur.
2. Mr. Tomson Thomas served as a reviewer for International Conference on Emerging Trends in Engineering Science and Technology (ICETEST 2020), at GEC Thrissur.
3. Mr. Tomson Thomas served as a Reviewer for IEEE International Conference on Communication, Control and Information Sciences (ICCISc. 2021, 16-18 June 2020) at

GEC Idukki.

4. Prof. P. V. Varkey is a Member of the Syllabus Committee for "Electrical System Design", at APJ Abdul Kalam Technological University.
5. Ms. Ginu Ann George is a Member of the Board of Studies for the Electrical & Electronics Engineering programme at APJ Abdul Kalam Technological University.
6. Ms. Ginu Ann George is a Convener of the Syllabus Committee for "Energy Storage Systems", at APJ Abdul Kalam Technological University.
7. Ms. Ginu Ann George is a Member of Syllabus Committee for "Electric and Hybrid Vehicle", at APJ Abdul Kalam Technological University.
8. Mr. Tomson Thomas is a Member of the Syllabus Committee for "Electrical Machine Design", at APJ Abdul Kalam Technological University.
9. Mr. Tomson Thomas is a Member of the Syllabus Committee for "Energy Management", at APJ Abdul Kalam Technological University.
10. Mr. Jojin Thomas is a Member of the Syllabus Committee for "Control Systems", at APJ Abdul Kalam Technological University.
11. Prof. P.V. Varkey had given a seminar on "Energy management measures" on 15th April 2021 for Matruvedhi Mekhala Co-ordinators at SJCTET, Palai.
12. Prof. Ginu Ann George had given a seminar on "Role of Housewives in building planning" on 15th April 2021 for Matruvedhi Mekhala Co-ordinators at SJCTET, Palai.
13. Ms. Ginu Ann George attended one-week AICTE Sponsored STTP on "Guidance & Counselling" at SJCTET PALAI from 8/2/2021 to 13/2/2021.
14. Ms. Ginu Ann George attended one week Online FDP on "Recent research trends in industrial drives and Power systems" conducted by RIT, Kottayam from 23-03-2021 to 27-03-2021.
15. Ms. Elizabeth Alphonsa Jose attended one week Online FDP on "Recent research trends in industrial drives and Power systems" conducted by RIT, Kottayam from 23/03/2021 to 27/03/2021.
16. Mr. Tomson Thomas attended one week Online FDP on "Recent research trends in industrial drives and Power systems" conducted by RIT, Kottayam from 23-03-2021 to 27-03-2021.
17. Ms. Tissa Tom attended one week Online FDP on "Recent research trends in industrial drives and Power systems" conducted by RIT, Kottayam from 23-03-2021 to 27-03-2021.
18. Ms. Shiny K George attended a one-week FDP on "Constitution of India" at TKM, Kollam from 15-03-2021

20-03-2021.

19. Ms. Shiny K George attended a one-week FDP on "Recent Trends in industrial drives and Power systems" at RIT, Kottayam from 23-03-2021 to 27-03-2021.

20. Mr. Jojin Thomas attended One-week KTU-sponsored FDP on "Advancement in Systems for Electric and Hybrid Vehicles" from 19/04/2021 to 23/04/2021.

21. Mr. Tomson Thomas attended a One-week AICTE Training and Learning (ATAL) Academy Online FDP on "Stress management" conducted by the Government College of Engineering, Srirangam from 01-02-2021 to 05-02-2021.

22. Mr. Tomson Thomas attended One-week AICTE Training And Learning (ATAL) Academy Online FDP on "Capacity Building" conducted by Rajiv Gandhi Government Polytechnic, Itanagar, Arunachal Pradesh from 15-02-2021 to 19-02-2021.

### **Department of Electronics and Instrumentation Engineering**

1. Dr. George Tom Varghese is selected as a Member of the Board of Studies for the Applied Electronics and Instrumentation Engineering programme at, APJ Abdul Kalam Technological University.

2. Dr. George Tom Varghese participated in AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 11th January 2021 to 15th January 2021 at LBS College of Engineering, Kasaragod.

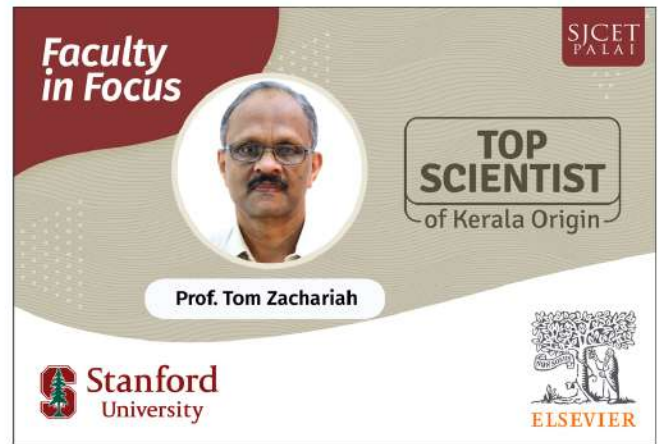
3. Dr. George Tom Varghese participated in AICTE Training and Learning (ATAL) Academy Online FDP on "Technology Management" from 4th January 2021 to 8th January 2021 at Dr. B. R. Ambedkar National Institute of Technology.

4. Dr. Nithin S.S. participated in the KTU sponsored online FDP on Deep learning for signal Processing -Basics to Implementation from 26 to 30 April organized by Sahridaya College of Engineering and Technology, Kodakara, Thrissur.

### **Department of Mechanical Engineering**

1. Dr. Giphin George has successfully completed doctoral degree on the topic "Applications of Carbon coated Zn-Al Layered Double Hydroxides in Textile Dye Absorption and as a Counter Electrode Material in Dye-Sensitized Solar Cells" from Vellore Institute of Technology.

2. Prof. Tom Zacharia, Department of Mechanical Engineering, is recognized as one among the World's Top Scientists by Stanford University, USA and Elsevier Publications, Netherlands and he is one among the 39 of Kerala origin.



### **Master of Computer Applications**

1. Asst. Prof. Jose George was selected as a member in the Board of Studies, APJAKTU-2021
2. Ass. Prof. Liz George and Asst. Prof. Akhil Sekharan got admission for part time Ph.D. in APJAKTU. (2020 admission)
3. Asst. Prof. Akhil Sekharan participated as a spokesperson in the webinar on "Trends in the webinar and cyber security" organized by Computer Application Department, Christ College, Idukki. (11-June-2021)

### **Master of Business Administration**

1. Dr. Suma Mathew participated in a five-day FDP on "Case Discussion Methodology" organized by MGNCRE, Department of Higher Education, Ministry of Education, Government of India, Hyderabad, held from 4th January - 8th January 2021.
2. Prof. Elma Joseph has attended a six-day STTP on "Guidance and Counselling", organized by SJ CET, Palai, held from 8 to 13 February 2021.
3. Prof. Elma Joseph attended a five-day workshop on "Life Skills Management" organized by REST Society for Research International, held on 7 to 11 June, 2021.
4. Prof. Dawn Jose attended a two-day workshop on "Research and Data Analysis" organized by IIM, Bodhgaya, held on April 21 & 22, 2021.



## **STUDENT ACHIEVEMENTS**

### **Department of Computer Science Engineering**

1. Ms. Anna Thomas, S4 CSE is being selected as the UIPath (A Global Software Company for Robotic Process Automation headquartered in New York City) Student

Developer Champion. A maiden group of 82 Champions represent diversity in many ways including geography, champions come from 5 Countries- India, Indonesia, Nepal, Singapore, and Sri Lanka.

2. Christy Varghese, Hanna Elsa Reni George, Amal Anto, and Jiya George under the guidance of Prof. Bino Thomas, won First Prize in the Final year project awards organized by Genskill and IEEE for their project 'TeachAR'.
3. Justin Johnny, Johan Issac, Felix V James, and Athira Gopinath under the guidance of Prof. Mereen Thomas, won second prize in the Final year project awards organized by Genskill and IEEE for their project 'Webskool'.
4. Aishwarya Michael, Anandu R, and Kenneth Feryl Philip under the guidance of Prof. Smitha John have presented the paper Automated Bus Scheduling and Travel Companion in the 2nd round of the 10th CSI-InApp International Student Project Awards 2021 held on 19 and 20 June 2021.
5. Alex Joseph, Chrissie Aldo, Athira M Nair, and Blessil Bose have presented the project Handwritten Character Recognition System using Deep Learning in Android Phones in the 2nd round of the 10th CSI-InApp International Student Project Awards 2021 held on 19 and 20 June 2021.

### ***Department of Electrical and Electronics Engineering***

1. Mr. Samrat Pradeep, Ms. Hanna Susan Mathew, Mr. Albin Thomas & Mr. Dennis Raju of the 2018-22 batch received ₹ 18,063.32 grant from IEEE Kerala Section for the project "Medical Assistive Technology Robot (MAT Robo)".
2. Mr. Samrat Pradeep of the 2018-22 batch has got "Amateur wireless station licence", from the Department of Telecommunications, Gov. of India.
3. Mr. Chris George of the 2018-22 batch has got "Amateur wireless station licence", from the Department of Telecommunications, Gov. of India.
4. Mr. Anandanarayanan C. A. of 2020-24 batch has secured NCC "C" Certificate (Army wing)
5. Mr. Roshan Siby of 2018-22 batch and his team won 2nd prize in C-Zone Kabadi competition held at SJCET, Palai

### ***Department of Electronics and Instrumentation Engineering***

1. Ms. Diya Jose (S4 EIE) has secured second in the INHALT, Content Writing Competition organized by IEEE WIE Affinity Group of IEEE SB SJCET.
2. IEEE SB SJCET is proud to announce the winners of ANWESHA, an online project submission competition. Antony Senson (S2 ME), Arnold Sahiju, (S2 ME), Noel Thomas, (S4 EI) and Bilbin Mathew (S6 ME) have come up

as the winners of ANWESHA, an online project submission competition.

### ***Department of Mechanical Engineering***

1. Mr. Arun Alex got selected as community lead of central zone of Innovators Premiere League, introduced by Kerala Startup Mission and IEDC Kerala.
2. IEEE SB SJCET is proud to announce the winners of ANWESHA, an online project submission competition. Antony Senson (S2 ME), Arnold Sahiju, (S2 ME), Noel Thomas, (S4 EI) and Bilbin Mathew (S6 ME) were come up as the winners of ANWESHA, an online project submission competition.
3. On SAE TIER II National Level Competitions, Mr. Emmanuel Shaji Mathew and Bilbin Mathew of 2018-22 Batch bagged second prize in lathe thread cutting and taper turning competition.
4. Team Tyroveloce Racing from Department of Mechanical Engineering, St. Joseph's College of Engineering & Technology, Palaigrabbed 18th position nationwide and 2nd position state-wide in the Mega ATV Championship conducted at Pernem, Goa.

### ***Master of Computer Applications***

1. Mr. Visakh T. S. (Student S5 MCA) got 1st prize in Project "SAMYUKTHA" competition conducted by Saint GITS College, Kottayam. (2021).

### ***Master of Business Administration***

1. Ms. Keerthi B. of St. Joseph's Business School scored 10/10 grade points in Trimester MBA Examinations, 2020.
2. Mr. Jithin J. Jose of 6th Trimester MBA set the record for performing the maximum number of one leg raised push-ups in 30 seconds, in the India Book of Records. He performed 71 one leg raised push-ups in 30 seconds.
3. Ms. Shikha Ann Raj and Prof. Elma Joseph published a paper on "The Impact of Working from Home During COVID-19 on Work and Life Domains: A Descriptive Study on Central Kerala" in Ahalia International Journal of Advanced Science and Technology, Volume 1, Issue 2, on April-June 2021.
4. Ms. Amritha Krishnan R.P. and Mr. Binso P. John published a paper on "Blockchain: Innovation and Impact on Banking Technologies" in Ahalia International Journal of Advanced Science and Technology, Volume 1, Issue 2, on April-June 2021.



**BID  
ADIEU  
(STAFF MEMBERS)**

***Master of Computer Applications***

1. Mrs. Rinu Rachel Varughese ( April 2021)



**NEWLY JOINED  
FACULTY**

***Department of Computer Science & Engineering***

1. Prof. Jibin Philip (March 2021)

***Master of Computer Applications***

1. Dr. Rahul Shajan (March -2021)



**FACULTY ON DEPUTATION  
FOR HIGHER STUDIES**

***Department of Electrical and Electronics Engineering***

1. Mr. Jojin Thomas has been deputed for full time Ph.D. at NIT, Puducherry.
2. Ms. Tissa Tom has been deputed for full time Ph.D. at RIT, Kottayam under QIP scheme of AICTE.

***Department of Electronics and Instrumentation Engineering***

1. Ms. Mable Alex has been deputed for full time Ph.D. at NIT, Trichy.



**EXTENSION  
OF ACTIVITIES**

***Department of Civil Engineering***

**MANIMALA RIVER FIELD VISIT**

As a part of the study on the pollution levels of the Manimala river in Kerala, a series of field visits to the Manimala river were carried out. These visits were aimed at finding out the polluting areas in the river and the preparation of a detailed project report to suggest measures for the abatement of pollution in the Manimala river. The first set of field visits along with the students, faculty, and officer of the Irrigation department was conducted on 07/01/2021. The faculty members accompanied were Dr. K.J. George, Mr. Jose James, and Ms. D. Dalmiya Rajan from the Department of Civil engineering, SJ CET Palai. In field study, various groups gathered details on the polluting stretches of the river in the Kalloopara - Thondara stretch of 6.6 km length. Further water samples were collected from the stretch and analyzed. With detailed laboratory and field studies, a detailed report was submitted.



***Department of Mechanical Engineering***

1. Mechanical Engineering Association (MEA) along with the Department of Mechanical Engineering of St. Joseph's College of Engineering & Technology, Palai conducted a Technical article writing contest for +2 students, SCHOLAR Junior 2021.

***Master of Computer Applications***

1. Department conducted add on Course "Introduction to emerging technologies in industry and research" for the higher semester students from 22-05-2021 to 12-06-2021.
2. Department conducted six-day online international workshop on "Machine Learning Applications –An Industrial Perspective" from 11-01-2021 to 16-01-2021.



## FROM THE ALUMNI

### *Department of Civil Engineering*



**ARSHA ROY**  
B.TECH 2017-21

*“Myself Arsha Roy and my 4-year journey with SJ CET has been a beautiful part of my life. The Civil Engineering Department has helped me discover my true potential both technically and professionally. The management and the professors have put in their trust on each one of us and has helped us pave a path into huge heights. They have provided us with a platform to truly express ourselves and grow in our field of knowledge as well as individuals. These four years of my life is always going to stand evergreen and my relationship with this place will remain forever.”*

### *Department of Electrical and Electronics Engineering*



**RADHIKA R.**  
B.TECH 2017-21

*“SJ CET is an amazing center of learning with a huge array of facilities for one’s studies and personal growth. It has the latest infrastructure with well-equipped lab facilities and the campus is ecofriendly with soothing environment. SJ CET provides you lots of technical skills along with theoretical knowledge that is necessary for today’s competitive world. There are various technical clubs for the same, along with other social and cultural clubs. The events like ASTHRA, SARGAM are conducted annually which gives us a good exposure with people from similar interests and fields. The college Placement Cell conducts personality development trainings which prepare us for better job opportunities and interviews. As an alumnus of the EEE department in SJ CET, I can proudly say that our faculties were well experienced and supportive and they won’t compromise in the quality of education. I have utilized all these facilities to pursue my higher studies. Currently I am doing Masters in Technology from SVNIT Surat in Instrumentation and Control program. Overall, I had a great time and memorable experiences to cherish for a lifetime.”*

# the**newsletter**

OFFICIAL NEWSLETTER OF SJCET PALAI JAN - JUNE 2021

## **Chief Editor**

Dr. George Tom Varghese  
HOD  
Dept. of Electronics &  
Instrumentation Engg.

## **Associate Editor**

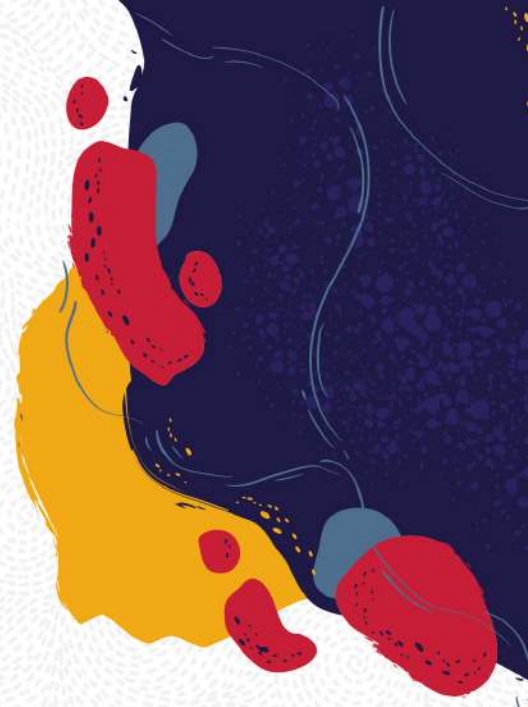
Prof. Ginu Ann George  
HOD  
Dept. of Electrical &  
Electronics Engg.

## **Cover Design and Layouts**

Mr. Rinju Rajan Mathew | r.

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