

NEWS LETTER

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

2021-22



DEPARTMENT VISION

To be a centre of quality education and research in the field of Electronics and Communication Engineering, to mould socially responsible engineering professionals.

DEPARTMENT MISSION

- To provide quality education ensuring systematic teaching-learning process.
- To create an ambience to promote and foster research, entrepreneurship and industry interaction.
- To impart value-based education to prepare students to become socially committed engineering professionals.

Words From HOD

Dear staff and students,

At the outset, let me congratulate the Editorial Board of Department of Electronics and Communication Engineering for their sincere and untiring efforts to publish the Newsletter for the academic year 2021-22. This newsletter reflects the activities and achievements of staff and students of our department throughout the academic year. I am sure that this newsletter is going to become a media to communicate with the outside world about our activities and also can be used as a reference material for future. I wish all success to our final year students for a bright and successful future. I request sincere cooperation of all of you to move forward with high standards.

Dr. Sheeja M K
Professor and HOD,
Dept. of ECE, SCTCE.

DEPARTMENT TOPPERS



ANUGRAHA ANNA SHAJI
(T4A)
SGPA : 10 (S2)

ANANYA K M
(T4A)
SGPA : 10 (S2)



JOVIA J BOSCO
(T4B)
SGPA : 10 (S2)

PARVATHI S NAIR
(T4B)
SGPA : 10 (S2)



S MADHURI SHIVAN
(T4B)
SGPA : 10 (S2)

BHAVYA K R
(T6A)
SGPA : 9.55 (S4)



VARADHA S
(T6B)
SGPA : 10 (S4)

SHABNAM B
(T6B)
SGPA : 10 (S4)



NIKHIL M NAIR
(T8B)
SGPA : 8.95 (S7)

AJAY KRISHNAN RM
(T8A)
SGPA : 8.43 (S7)



FACULTY ACHIEVEMENTS:

Sri.George M Joseph defended Ph.D with the thesis titled "Design and Analysis of High Performance Data Converters" from University of Kerala on 18th April 2022



Sri. Renjith R J defended Ph.D for his thesis titled "Spatial modulation and energy harvesting in cooperative communications: An outage perspective" by Anna University on 11th January 2022



Prof. Nisha Jose K. defended Ph.D (University of Kerala) with the title "Investigations on application of MEMS switches for achieving tunable characteristics in radio frequency integrated circuit (RFIC) systems" under the guidance of Dr. V. Suresh Babu on 28th October, 2021.



Prof. Jisu Elsa Jacob defended Ph.D (University of Kerala) with the thesis titled "Studies on EEG-based diagnosis of Encephalopathy using chaotic and other non-linear analysis" under the guidance of Dr Gopakumar K on 17th August, 2021.



She also co-authored 'Robotics Simplified' with Manjunath N .The book simplifies key concepts of robot modeling, control and programing. 'Python Programming' is another publication of her's co-authored with Bharath Viswam S.The book covers concepts of Python from beginner to expert level in a lucid manner.

STUDENT ACHIEVEMENTS:

1.Arundhathi Krishna(T8A):

- Titled as Best CEO for Solarise, an entrepreneurship fest hosted by IEEE Kerala Section PIE and YP Region 10
- Winner of CLAPATHON, International (R10) level IEEE event for career aiding



- Winner of Technovate IEEE Paper Submission (2021) Kerala Section
- VOFCAS R10 level Video Lecture Contest on Circuits Winner 2021

2.**Ashwin M(T8A)** won IdeaPoint idea pitching contest and second prize in Pitch An Idea Ideathon hosted by IEEE Travancore Hub.



3,Niranjana K Variyar(T8B)

- Pitch An Idea-Ideathon- IEDC CEA(National Level) - First Prize.
- Winner- Auxilia Idea Pitching- Helping Hands Organization and CET (National Level).
- Blogpreneur- Blogging Competition- IEEE PIE KERALA SECTION- First prize.
- Écrire- Blogging Competition- IEEE LINK - First Prize(National Level).
- Let's Innovate- Ideathon- IEEE LINK- 5th position selected for mentorship.
- Pitch-An-Idea- Ideathon- IEEE LINK (TechX) - Second place.
- Virtuoso- Web Page Development- IEEE Travancore Hub - Third Prize.



4.**Sreehari A** of T8B won the second prize in UI Challenge , a national level UI DESIGN contest conducted by NIT Calicut.



5. **Sarathkumar K S of T8B** won the Third Prize for Luxathon 3.0 electrical hackathon.



6. **Kavya Sathish Kumar of T8B** won the first place for Presentiate a Paper Presentation competition conducted as part of Prayaag-Vistara 2022 organized by LBSITW. She also won Second prize for W-Saga - Best entrepreneur contest conducted by IEEE WIE AG LBSITW.



7. **Joshy s s - T8B**

Blogging competition -IEEE IASSBC RIT - second

Powerclique - Engergia- competition-IEEE SCT- third



8. **Neeraj S- T8B**

Second prize -Report writing-IEEE SB GECI

Third prize-Blogging competition- IEEE IAS SBC RIT



9. **Megha Madhusoodanan (T4B)** has secured a rank of 83 at the All India level in NEO5.0 (National Engineering Olympiad). She is also working as the Design Lead of RFID COUNCIL under IEEE KERALA SECTION. She also won the second prize for Pie Quiz conducted by IEEE SB AISAT.



10. **Nithin SreeKumar** of T6B got selected to play for the Kerala Technological University Basketball team.



11. **Daya Christudasan of T6A** was the winner of logo making competition held as a part of silver jubilee

12. **Jeshurun Carlos of T4A** secured 3rd place in Poster Making Competition Conducted By IEEE Student Branch, College Of Engineering Trivandrum as a part of IEEE Day



13. **Jackson R**, from T4A, won Second prize in Drawing Competition conducted by IEEE PES Kerala Chapter.



14. **Joyal K Biju** of T4B secured second position in JAM (2022) competition hosted by IEEE IAS and IES SB SNIT

Team of 3 led by **Aparna Shibu**, **Balamurugan V** and **Basil Paul** of T8A won second prize for Rural La Carte Ideathon hosted by IEEE TEMS Tribune.

A team of 4 students, **Hrithik V Kumar(T8A)**, **Ashik Ali (T8A)**, **Hariram N S (T8B)** and **Niranjana K Variyar (T8B)** secured the second prize for Tech-O-Thon, an Ideathon hosted by Nirma University under IEEE Gujarat Section 2022.

P Anirudh, **Sarathkumar K S** and **Vivek Thrivikraman** of T8B won the second prize for Ideate, a national level Idea pitching contest hosted by IEEE PES SBC SCTCE.

Nikhil V Gopal and **Kavya Sathish Kumar** of T8B published their technical paper titled "Design of a Low-Cost Gas Geyser to Reduce CO and CO2 Emissions" at the 2021 IEEE Pune Section International Conference (PuneCon). This paper illustrates a low-cost and innovative gas geyser design that aims to reduce carbon monoxide and carbon-dioxide emissions. DOI: 10.1109/PuneCon52575.2021.9686515

Team lead by **Devika A R (T6 A)**, **Gowri Nandana A R (T6A)**, **Sarathkumar K S (T8B)** and **Sharron Mariam Varghese (R8)** secured third position for Luxathon 3.0(2022), a 24-hour illumination hackathon conducted by IEEE Student Branch College of Engineering Karunagappally.

Vivek Thrivikraman (T8B), **Nanda Kishore P (T8B)**, **Athul Jayakumar(T8A)**, **Akhil Manikandan(T8A)** won Second Prize for Luxathon 3.0 (2022), a National Level electrical hackathon.

Dennis Jose (T6A), Nithin Sreekumar (T6B), Sreerag K S (T6B) are three among the players of the college football team who came back home with trophies by contesting in football tournaments at NIT Calicut and CET .

A team of five has participated for the Darsana IGNITE Innovation Contest 2022 and their proposal named "AutoBuddy" has shortlisted for the final evaluation of the contest. The members of the team are from third year Electronics and Communication department of SCTCE. The members are **Nidhin Sudhakaran (T6B), Richie Siddartha Walsalam (T6B), R S Vishnu (T6B), S Vyshak (T6B) and Stebin Mathew T (T6B)**

A team of 3 from **T8A** lead by **Akhil Manikandan, Govind S Nath and Atul Jayakumar** secured the second prize in Electrical Hackathon conducted by IEEE SB CEK



In Memory of

This year we were all grief-struck by the tragic loss of Anirudh V L of the 2017-21 ECE B batch. His untimely demise is a loss for all. An active member of CEST SCTCE, Anirudh has volunteered, designed and hosted many workshops and sessions for the college. Moreover, Anirudh shall never be forgotten as a great friend, a wonderful student, and an excellent engineer in the making.



CEST

CEST SCTCE hosted a plethora of events the past year with huge participation from the study body.

- **IDEAQUERY:** A 3- hour orientation programme hosted by Niranjana K Variyar on 27th December 2021 discussed how to approach ideathons and formulate successful ideas for presentations.
- **ROCK YOUR LINKEDIN PROFILE:** A 3-hour webinar session hosted by Arundhathi Krishna on 30th December 2021 talked about how to boost one's LinkedIn profile and maximise engagement.
- **BEHIND THE BOARD:** A 2-day offline workshop that familiarised students with Printed Circuit Board designing and Proteus was conducted on 5th and 6th April 2022.
- **UI/UX:** Hosted by Saranya Krishna M, a 2-day online workshop on the basics of UI/UX design was conducted on 23rd and 24th April 2022
- **STOCHASTIC SURGE:** A crypto trading competition was jointly hosted by CEST SCTCE and IEDC SCTCE ON Roostoo platform for 24 hours. A webinar session on Stock Market by Sarath Chandran , CEO of Stock Conclusion Pvt Ltd. was conducted on 2nd February 2022 followed by the competition on 12th February 2022. The event had wide participation where students put their basic knowledge of coins and trading to the test.
- **WORKSHOP ON MATLAB :** CEST, in association with Advent' 22 - the technical fest of SCTCE hosted a 2-day MATLAB Workshop on 21st and 22nd of May 2022. The session was handled by Akhil Nawaz ,Engineer at Tata Elxsi. Students received introduction to the fundamentals of MATLAB and Simulink.

EDITORIAL BOARD

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100+ PLACEMENTS

