

SETHU INSTITUTE OF TECHNOLOGY



An Autonomous Institution | Accredited With 'A' Grade By NAAC
(Affiliated to AICTE, New Delhi and Anna University, Chennai)
(Accredited by NBA, AICTE, New Delhi for MECH, CSE, ECE, EEE & IT)
(Approved Research Centre for MECH, ECE, EEE, CSE Engineering)
Pulloor, Kariapatti – 626115, VIRUDHUNAGAR DISTRICT.



Mr. S. Mohamed Jaleel, B.Sc., B.L.,
Founder & Chairman

SETRite 2023

SETHU RESEARCH NEWSLETTER

(Association with Sethu Research Forum)

JAN 2023 - Vol.1, Issue 1

Coffee with Elite Researcher



**Manobala, Manoj and their Mentors with
H-Social Creator Award**



**Manobala Receiving TNSI Award from
MSME Minister Mr. Tha. Mo. Anbarasan**

Mr. S. Manobala, Mr. Manoj and Mr. Jegan, pursuing final year ECE at Sethu Institute of Technology, have won the Tamilnadu Student Innovators Award TNSI 2021 for their innovation in a Wearable Prenatal Monitoring Device. Some of the glimpses are presented here during the interview with Mr. S. Manobala.

Our Inspiration to become an Entrepreneur:

Nowadays, students are following the exact career path that was told to them rather than pursuing their own goals. We wanted to change their perspective by creating a huge impact on society. Luckily, we have wonderful mentors to guide us. Inspired by the many issues faced by the pregnant women, we proposed an idea to design a wearable, compact and cost-efficient device that can be used to monitor a pregnant lady non-invasively throughout her gestation.

Journey of our Project:

Our journey started with an innovative idea. We participated in 10 competitions across various states in India. We won four contests, such as H-Social Creator 2021 (Hyundai, New Delhi), TNSI 2021 (EDII, Chennai), Protothon 2022 at Bengaluru and Ideathon 2022, ACIC. These achievements are not possible without the support of our mentors. Every contest is a milestone for us.

Success Story of TNSI 2021:

Our mentors advised us to register for the TNSI 2021. At first, we were so nervous, because as the name suggests, the competitors will be from various districts of Tamil Nadu. But later on, we gained confidence, and got short listed in boot camp for the finals. We had so much hope in our idea and finally we got the privilege of being first among all the participants.

Accreditation and Research Centres Details



- ▶ The College is accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade.
- ▶ The following programmes have been accredited by National Board of Accreditation (NBA), New Delhi under Tier-1 (Washington Accord):
 - B.E. Mechanical Engineering
 - B.E. Computer Science and Engineering
 - B.E. Electronics and Communication Engineering
 - B.E. Electrical and Electronics Engineering
 - B.Tech. Information Technology

Approved Research Centres

The College has Research Centers approved by Anna University, Chennai to pursue Ph.D. research work in the following departments

- | | |
|---|--|
| ● Department of Mechanical Engineering | ● Department of Electrical and Electronics Engineering |
| ● Department of Computer Science and Engineering | ● Department of Physics |
| ● Department of Electronics and Communication Engineering | ● Department of Chemistry |

Startups Formed inside the SIT Campus

- **SMJ Smart Products Pvt Ltd**, Directors: Mr.S.M.MohamedJaleel, Mr.S.M.Seeni Mohamed Aliar Maraikkayar, Ms.S.M.Nazia Fathima and Dr.M.Parisa Behamz
- **Zetspire Technologies Private Limited**, Directors -Mr. S. Mohamed Jaleel, Mr.S.M.Seeni Mohaideen, Mr.S.M.Seeni Mohamed Aliar Maraikkayar, Ms.S.M.Nilofer Fathima, Dr.S M Nazia Fathima, Dr.S.Sivaranjani, Dr.V.Akilandeswari
- **Wahad Technology Solution Private Limited**, Directors: Ms.S.M.Nilofer Fathima and Dr.I.Sheik Arafat
- **ZENSIT Smart Products Private Limited**, Directors: Ms.Sabah Afroze and Dr. R Tamilselvi
- **Brainy Farms Agrotech Private Limited**, Directors: Dr.P.Indira, Dr.M.Sivabharthy and Dr.S.Karthickkumar
- **NTP Crop Smart Products Private Limited**, Directors: Mr.A.Nagaraj, Dr.M.Sheik Dawood, and Ms.G.Ramu Priya
- **Greeny Graders Private Limited**, Directors: Ms.K.Nagalakshmi, Ms.S.Gospelina Christiana, and Dr.J.Vairamuthu
- **Sethu Techee Private Limited**, Directors: Dr.G.Soundradevi, Dr.J.Jeyashanthi and Dr.G.Narmadha
- **METASIT Private Limited**, Directors: Dr.C.Kailasanathan, Dr.G.D.Sivakumar and Dr.B.Muthu Chozha Rajan
- **Digital-Agri Innovators & Consultants Private Limited**, Directors: Dr.V.Shunmughavel, Dr.M.Parvathy and Dr.R.RubeshSelvakumar
- **Sethu Techvision Private Limited**, Directors:Ms.T.Ruba, Dr.A.Merline and Dr.M.Fathunisha
- **Eye Deluxe Intech solution Private Limited**, Directors: Ms.M.Uma Maheshwari, Dr.M.Pandimadevi and Mr.S.Arunnigo

Research Achievements by Faculty

Department of Civil Engineering

1. Dr.A.M.Arun Mohan, Associate Professor, Civil received Best Faculty award of the year 2022 from research education solution on 10th November 2022.
2. Dr.A.M.Arun Mohan, Associate Professor, Civil received Best Faculty award of the year 2022 from CST achievers on 05th November 2022
3. Mrs.S.Bharathi Assistant Professor Civil received young researcher award of the year 2022 from CST achievers on 05th November 2022.
4. Dr.A. Senthil Kumar (Principal), Dr.A.M. Arun Mohan (ASP/Civil), Ms.S.Bharathi (AP/Civil), Mr.S. Joseph Gnanaraj (AP/Civil), Mr.R.Mafaz Ahamed (AP/civil) mentored and received Second Prize for the project "Treatment of urban ground water pollution due to untreated sewage pollution through hyper accumulator plant" in start-up idea Competition held in Virudhunagar on 25.11.2022.
5. Dr.A. Senthil Kumar (Principal), Dr.A.M.Arun Mohan (ASP/Civil), Ms.S. Bharathi (AP/Civil), Mr.S. Joseph Gnanaraj (AP/Civil), Mr.R.MafazAhamed (AP/civil) mentored and received Third Prize for the project "Voice operated home appliance system" in start-up idea Competition held in Virudhunagar on 25.11.2022.

Department of EEE



Mrs.V.Vaishnavi received the award & Cheque from MSME Minister Mr.Tha.Mo.Anbarasan

Mrs.V.Vaishnavi, Asst. Professor, Electrical & Electronics Engineering had received the cheque of Rs.1 lakh from the honourable MSME minister T.M.Anbarasan, as their First installment for the research proposal titled "Non-invasive Infant Health monitoring device" in the Demo Day Programme organised by the Innovation & Incubation Division, Entrepreneurship Development and Innovation Institute of Tamilnadu on 16th December 2022.



Dr.S.Vijayarajan Received the award & Cheque from MSME Minister Mr.Tha.Mo.Anbarasan

Dr.S.Vijayarajan, Associate Professor, Electrical & Electronics Engineering received the cheque of Rs.1 lakh from the honourable MSME minister T.M.Anbarasan, as their First instalment for the research proposal titled “Non-invasive Glucometer” in the Demo Day Programme organised by the Innovation & Incubation Division, Entrepreneurship Development and Innovation Institute of Tamilnadu on 16th December 2022.



Winners of Tech Future Hackathon

Dr.S.Vijayarajan, Associate. Professor & Mrs.V.Vaishnavi Asst Professor of Electrical & Electronics Engineering got selected as one among the TOP 10 winners of Tech Future Hackathon for a pooled amount of Rs.70 lakhs for their projects titled “Non-invasive G-meter” and “Intelligent Wireless pod to monitor infant health” organized by Foundation for Innovation and Technology Transfer IIT Delhi on 29th November 2022.

Department of Mechanical Engineering

Mr.S.A.Sethuraaman, Asst.Professor, Mechanical Engineering and Dr.Sivabharaty, Professor, Physics are jointly received the best paper award for the research paper entitled “Role of gadolinium doped in Nickel nano ferrites” in the International conference on Nano technology organized by the Srinivas University Research and Innovation council Mangaluru on 12th November 2022.



Mr.S.A.Sethuraaman received the Best paper award
Dr.C.Kailasanathan was selected as one of the idea evaluator for evaluating application received in TN SIDP

Department of Agriculture Engineering

Dr. Kannan K, Head of the Department, Agriculture Department got first prize in paper presentation event in National Seminar on “Sustainable Agriculture – Climate Change Scenario” at Faculty of Agriculture, Vivekananda Global University (VGU), Jaipur, Rajasthan on 23.11.2022.

Department of IT

Dr.S.Sivaranjani Dean (CSE & IT), Dr.G.Susan Shiny, ASP/IT, Dr.A.Hyils Sharon Magdalene, ASP/IT and Mrs.G.Rajalakshmi. AP/IT mentored and received Fourth Prize for the project “Interactive Buddy Toy for autism & Mental Disordered ChildDren” in Arambam 8th edition - Native Lead Foundation Contest held in Virudhunagar on 25.11.2022.

Department of ECE

Dr.M.Parisa Beham and Dr.R.Tamilselvi, Professors in the Department of ECE attended and presented their research papers in 108th Indian Science Congress, conducted at Nagpur from 3rd Jan to 7th Jan 2023.



**Dr.M.Parisa Beham and Dr.R.Tamilselvi
in Indian science Congress, Nagpur**

Mrs.T.Ruba, Assistant Professor, ECE received the cheque of Rs.80,000 from the honourable MSME minister T.M.Anbarasan, as their First instalment for the research proposal titled “Smart Aquaculture Systems” in the Demo Day Programme organised by the Innovation & Incubation Division, Entrepreneurship Development and Innovation Institute of Tamilnadu on 16th December 2022



**Mrs.T.Ruba received the award & Cheque from
MSME Minister Mr.Thi.Mo.Anbarasan**



**Mrs.J.Rajalakshmi and Dr.S.Sivaranjani
received Best Paper Award**

Mrs.J.Rajalakshmi, Assistant Professor, ECE and Dr.S.Sivaranjani, Professor, CSE, received Best Paper Award in International Conference held at IIT Varanasi on December 22, 2022.

Our faculty members of Sethu institute of technology Dr.R.Tamilselvi, Dr.I.Sheik Arafath, Dr.A.Saravanakumar, Dr.S.Kailasanathan, Dr.J.Jeyashanthi, Dr.P.Indira, Dr.Shanmugavel, Mr.A.Nagaraj, Mrs.Nagalakshmi, and Mrs.T.Ruba were short listed under “RKVY Raftaar” scheme for their proposed idea and they have attended one week boot camp for the same at NIAM, Jaipur from 19.12.2022 to 23.12.2022. Also they successfully completed Two Month incubation program with NIAM.



SIT Faculties at NIAM, Jaipur, Rajasthan

Sensors in Modern Cars

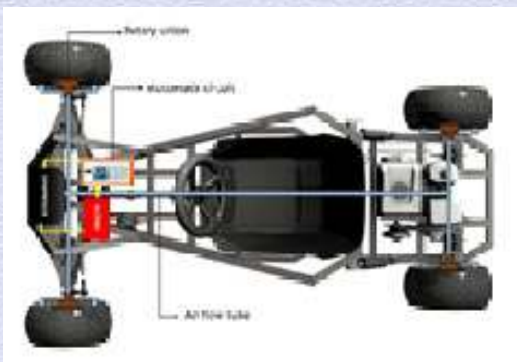
In modern cars many sensors are used to monitor and control the vehicle. Oxygen Sensors, Engine Speed Sensor, Mass Air Flow Sensor (MAF), Fuel Temperature Sensor, Manifold Absolute Pressure Sensor (MAP), Crankshaft Sensor, Coolant Temperature Sensor (CTS), Intake Air Temperature Sensor (IAT), Knock Sensors, Camshaft Position Sensor, Fuel Pressure Sensor, Voltage Sensor, NOx Sensor, Exhaust Temperature Sensor, Boost Pressure Sensor, Throttle Position Sensor, Tyre pressure monitoring sensor (TPMS), Radar sensor, ultra sonic sensor, LiDAR sensors. All sensors are used in modern cars and self-driving smart cars. Here we discuss about Tyre pressure monitoring sensor (TPMS).

Tyre Pressure Monitoring System and electronic-Tyre Information System:

The pressure inside the tire is measured, transmitted and indicated. In critical situations, a signal on the center console's instrument cluster, for instance, gives the Driver timely warning of a Drop in tire inflation pressure or a higher tire temperature. The Driver can then stop the vehicle in time before a dangerous situation arises.

Tyre pressure display (digital output)

Properly inflated tires not only enhance Driving safety, they also reduce carbon dioxide emissions. This is because under-inflated tires have higher rolling resistance, which in turn increases fuel consumption.



Schematic diagram

Tyre pressure monitoring sensor

Importance of Monitoring of tire pressure and temperature:

- ▶ Early alert to pressure loss
- ▶ Fuel consumption and less wear on tires
- ▶ Upto 3% reduction in carbon dioxide emissions

Tyre Pressure Monitoring System and Maintaining Assistant:

Automatic tire inflation system is a system to provide control over the air pressure in each of a vehicle's tires as a way to improve performance on different surfaces.

The technology is extensively used in many off-road transport operations. In many countries, especially Australia, New Zealand and South Africa, Automatic tire inflation system is used in army vehicles, logging, mining, and power line maintenance, as it significantly reduces environmental impact when transporting logs, or travelling on gravel or dirt roads.

The Filling Assistant supports the Driver with the action of filling tire pressure to the correct pressure using visuals (i.e. flashing lights or Smart phone app) and/or audio feedback (horn) from the vehicle. It provides a simple, easy and positive support for filling up and measuring pressure in each tire.



Methodology

Source

[https://www.continental-automotive.com/en-gl/Passenger-Cars/Architecture-and-Networking/Comfort-Security/Tire-Information-Systems-\(1\)/Tire-Pressure-Monitoring-System](https://www.continental-automotive.com/en-gl/Passenger-Cars/Architecture-and-Networking/Comfort-Security/Tire-Information-Systems-(1)/Tire-Pressure-Monitoring-System)

1. G.Nagaraj, "Artificial Neural Network to predict swinging of lower limb in jumping jack exercise", International conference on contemporary computing and informatics 14 to 16 Dec. 2022, AMITY University.
2. S.A.Sethuraaman, P.Indira, S.Kathickkumar, C.Muthusamy, M.Sivabharathy. "Preparation and characterisation of reduced graphene/ copper oxide nano composite thin films for solar thermal application", International conference on Nano technology, November , 2022, Srinivas University, Mangaluru, Karnataka.
3. Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, M.Parisa Beham, "Novel Digital Filter Design For Noise removal In Fetal Ecg Signals – (IIR filter)" –paper is accepted in Bentham Bio-medical journal – 2022.
4. Sabah afroze, R.Tamilselvi, M.Parisa Beham, "OSTHERSIT- Dataset for Osteoarthritis analysis using thermal image" , Biomedical Pharmacology Journal, Vol. 16 (1) (2023).
5. Seeni Mohamed Aliar Maraikkayar, R.Tamilselvi, M.Parisa Beham, and K.Shanmuga Priya, "Analysis of Amniotic fluid in fetal assessment using Biophysical Profile Images, ICVGIP 2022 at IIT Gandhi nagar, Dec 8th to 10th 2022, IIT Gandhi nagar, Gujarat.
6. M. Pandimadevi, R.Tamilselvi, M.Parisa Beham, "Performance enhancement of patch antenna using nano composite substrate for modern wireless Communication, ICMCE – 2022, November 18th , 2022, Baseliros Mathews II College of Engineering, Kerala.
7. J.Rajalakshmi and S.SivaRanjani, "Improving Antenna Capacity for MIMO IoT using optimal Deep learning based CNN classifier approach", 2nd International Conference on Nonlinear Applied Analysis & Optimization and NMD 2022" Dec 19th -22nd, 2022, IIT (BHU)Varanasi. (Best Paper Award)
8. J.Rajalakshmi, The Implementation of an Ensemble Deep Learning Method to the Prediction of Short -Term Energy Prices" 2nd International Conference on Nonlinear Applied Analysis & Optimization and NMD 2022, Dec 19th – 22nd, 2022, IIT (BHU)Varanasi.
9. G.Narmadha, "IOT based fruit quality management, First National conference on Emerging Trends in Intelligent system and Smart communication, Nov.11th&12th,2022, Vel Tech Hi Tech Engineering college, Chennai.
10. K. Kannan, S.Vaishnavi, S. Sharmila, S.JayaDharshini, S.Sundara Meenakshi, N Harishma and A L Shalini, "Exopoly saccharides (EPS) mediated intergeneric co aggregation as a mechanism of salt tolerance in bhendi", Horticulture: Enhancing productivity and mitigating major challenges, Nov. 11th& 12th,2022 , Department of Horticulture, Kalasalingam School of Agriculture and Horticulture (KSAH), Kalasalingam Academy of Research and Education (KARE), Deemed to be University, Tamilnadu.
11. K.Kannan, "Exopoly saccharides (EPS) mediated inter generic coaggregation as a mechanism of salt tolerance in maize", Innovative Technologies and their Applications in Higher Education, November 17th&18th , Internal Quality Assurance Cell (IQAC), Annamalai University, Tamil Nadu.
12. K.Kannan, "Efficacy of nanofertilizers, biofertilizers and chemicalfertilizers on the productivity of Bhendi (Abelmoschus esculentus L.)", Digital and Organic Interventions towards Sustainable Agriculture, Horticulture and Animal Husbandry 2022 (DOISHA 2022) Science and Technology Society for Integrated Rural Development (S & T SIRI),Telangana, Andhra Pradesh in association with Sri KondaLaxman Horticultural University, Telangana State.
13. K.Kannan, "Preparation of eco-bricks with a topicalcoating of silver nanoparticles, Advancements in Materials Science andTechnology", November 2nd - 4th 2022, Centre for Nanoscience andNanotechnology, Sathyabama Institute of Science and Technology, Deemed to beUniversity, Chennai in association with Alexander Dubcek University, Trencin, Slovakia.
14. K.Kannan and M.Sutharsanan Viknesh,"Preparation of biocrete bricks using food wastes - a zero carbon alternative for concrete, Sustainable Development in Food Processing and Technology for Food Security", Department of Food Technology, School of Bio, Chemical and Processing Engineering, November 19th 2022, Kalasalingam Academy of Research and Education (KARE), Deemed to be University, Tamil Nadu.

Research Publications by Faculty (November-December 2022)

15. K.Kannan and M.Sutharsanan Viknesh, "Preparation of papercrete bricks using food wastes with at opical coating of silver nanoparticles", Sustainable Development in Food Processing and Technology for Food Security, Department of Food Technology, School of BioChemical and Processing Engineering, November 19th 2022, Kalasalingam Academy of Research and Education (KARE), Deemed to be University, Tamil Nadu.
16. K.Kannan, Isaac Manuel, Sharanagouda J Patil and R.SathisGouda, "Environmental Status of Hosakote Lake", Bengaluru, Karnataka, Integrated Water Resources Management: Prospects and Challenges, December 8th – 10th 2022, Water Institute - A centre of excellence, Karunya Institute of Technology and Sciences (KITS), Deemed to be University, Coimbatore.
17. K.Kannan and M. Sutharsanan Viknesh, "Papercrete bricks preparation using agricultural wastes with a topical coating of silver nanoparticles", Agritech Manifest, December 22nd and 23rd 2022, Agricultural Engineering College and Research Institute (AEC & RI), TNAU, Coimbatore.
18. K.Kannan, "Factors influencing inter generic coaagregation among PGPR in Maize Rhizosphere, Sustainable Agriculture: Climate Change Scenario", November 23rd 2022, Faculty of Agriculture, Vivekananda Global University (VGU), Jaipur, Rajasthan.
19. P. Indira, A.Viswanathan, M. Umamaheswari, M. Jaganathan, Julius B. Wosowei, Rohi Prasad, Creating an ML-based Mobile App for Maintaining Crop Health, International conference on Edge computing and applications, 13-15th October, IEEE.
20. M. Sivabharathy N. Lenin, M.Prabhu, , S.A. Sethu Raman, A. Senthil Kumar, Role of gadolinium doped in Nickel Nanoferrites on Structural, Optical, Electrical, and Magnetic Properties International conference on Nano technology (ICON - 2022) 11th -12th November 2022, Institute of Engineering & Technology & Research & Innovation Council, Srinivas University Surathkal, Mangaluru.
21. L.Jayalakshmi, Chennan Ramalingan, "synthesis of bis(pyrazoyl) methylidenede corated 1_methylpiperidin_4_one using sodium hyDroxide in aqueous PEG_400:Antioxidant activity", 19th & 20th December 2022, Mannar Thirumalai Naicker Collage, Madurai.

PATENTS FILED / GRANTED

Mr.S.M.Seeni Mohaideen, CEO, Dr.A.Senthilkumar, Principal and Dr.J.Vairamuthu AP/Mech Received Indian Patent Grant for the work on " Insulated Milk Can With LID and Portable Solar Powered Cooling Device (SET)" On 13/10/2022. Madurai.

Mr.S.M.Seeni Mohamed Aliar Maraikkayar, JCEO, Dr.R Tamilselvi, Prof/ECE, Dr.M.Parisa Beham, Prof/ECE and Mrs.S.Sabah Afroze, Research scholar published an Indian Patent for the work on "Smart Nose For Pests and Diseases Detection in Mango Filed" On 08/11/2022.

Dr.A.M.Arun Mohan ms.S.Bharati, Ms.B.Mallika, Mr.M.Mohamed Meera Mohaideen Mr.S.Joseph Gnanaraj, Ms.Presanna Jeneifer Golda, Ms.S.JeswinRoshini and Mr. R.Mafaz Ahamed published a Indian Patent for the work on "Enhancing Human Resource Management Through Improved Internal Communication with the helpof Social Media For Leadership" on 22/11/2022.

Dr. P. Indira, Physics Published a Indian Patent for the work on " A System and Method Based on Neural Network Model of Energy Demand In Electric Vehicle" On 09/09/2022.

Dr.S.Sivaranjani, Prof/CSE and Mrs.K.Nagalakshmi, AP/CSE published a Indian Patent For the Work on "Efficient Wearable Sensor Device for Predicting the Heart Rate using Machine Learning Algorithms" On 12/08/2022.

Dr.P.Meenalochini, ASP/EEE, Dr.G.SounDradevi, Professor/EEE and Dr.B.Meenakshi Sundaram, Prof/EEE published Patent on "Go Anywhere at Anytime" on 18.11.2022.

PROGRAMS ORGANIZED

1. Department of Civil Engineering Conducted a Webinar on Successful Path in Civil Engineering Through Gate Examination-23 on 3rd November 2022.
2. Yacker Club Conducted the Event Verse Writing Competition. On 18th November 2022.
3. Yacker Club Conducted the Debate Tournament Clash Of Minds on 25th November 2022.
4. Institution's Innovation Cell Conducted a Program -Awareness Training on Intellectual Property Rights on 5th December 2022.
5. Department of Electrical and Electronics Engineering and Internal Quality Assurance Cell Conducted Faculty Induction Program on 6th December 2022.
6. Department of Artificial Intelligence and Data Science conducted a Webinar on Career Opportunity in Data Science on 12th December 2022.
7. Department of Electrical and Electronics Engineering and TNGDC conducted Awareness Program on Energy Conservation on 13th December 2022.
8. Department of Computer Science Engineering Conducted Two Days DrDO Sponsored Seminar on Smart Military Base Technology Challenges And Innovations on 16th December 2022.
9. Department of Civil Engineering, Agriculture Engineering and Biotechnology Conducted a Workshop on Start-up IOT Projects Using Arduino 16th December 2022.
10. Department of Artificial Intelligence and Data Science conducted Webinar on Ethical Hacking on 17th December 2022.
11. Department of Electronics and Communication Engineering conducted Webinar on Ethical Hacking on 21st December 2022.
12. Department of Electronics and Communication Engineering conducted Webinar on Recent Trends in Antenna Design and Its Applications on 29th December 2022.
13. Department of Biomedical Engineering conducted Webinar on Molecular Medicine on 30th December 2022.
14. Department of Electronics and Communication Engineering in Collaboration with Alumni Association of Sethu Institute of Technology Conducted a Webinar on Future Trends in Wireless communication-Beyond 5G on 31th December 2022.
15. Department of Electronics and Communication Engineering in Collaboration with ISTE Chapter Conducted a Webinar on Internet Of Things on 31st December 2022.

Achievements by Students

| S.No | Name of the Students | Name of the Event with place whereheld | Name of the Mentor | Date of the Event | Status (Prize/participation/ Cash prize with amount) |
|---|---|--|---|-------------------|--|
| DEPARTMENT OF BIOMEDICAL ENGINEERING | | | | | |
| 1. | Vigneshrajan | Idea presentation, PSNA College of engineering | Dr.R.Arangasamy HOD/BME & Dr.M.Rajalakshmi | 10.11.2022 | 1st prize |
| DEPARTMENT OF MECHANICAL ENGINEERING | | | | | |
| 2. | Selvan Venkat, Selvan John Benjamin, Sevan Vigneshwaran | SMART INDIA HACKATHON-2022 | Dr.R.Tamilselvi,Prof/ECE, Dr.M.Parisabegum,HOD/ECE Dr.Vairamuthu,Asso.Prof,Mech | 29.08.22 | Second prize & Rs 50000 |
| 3. | Selvan T. Kishore pandi, II Mech | (Poster competition) in the Intra College symposium organised by the Bio Technology Department | Dr.Venkatesan, Professor,Mech | 24.08.22 | First prize |
| 4. | Selvan R. Arunprasath, II Mech | (Poster competition) in the Intra College symposium organised by the Bio Technology Department | Dr.Venkatesan, Professor,Mech | 24.08.22 | Second prize |
| 5. | Selvan B.Vishnukumar, III Mech | Project Presentation-National level Technical symposium,M.Kumarasamy college of Engineering,Karur | Dr.Vijayarasu, Asso.Prof,Mech | 07.04.2022 | 3rd Prize |
| 6. | Selvan B.Vishnukumar, III Mech | National level Project Expo and Contest,Dhanalaksmi Srinivasan Engineering college,Perambalur. | Dr.Vijayarasu, Asso.Prof,Mech | 28.10.22 | 2nd Prize |
| 7. | Selvan S.Vignesh, III Mech | Innovative project contest, SethuInstitute of Technology | Dr.G.D.Sivakumar Dean/Mech Dr.Muthusamy, Hod/Mech | 29.09.22 | Second prize |
| 8. | Selvan. Mohamedaslam, III Mech | Innovative project contest, SethuInstitute of Technology | | 29.09.22 | Second prize |
| 9. | Selvan. Mohamed Noufal Akram A.S. ,III Mech | Innovative project contest, SethuInstitute of Technology | | 29.09.22 | Second prize |
| 10. | Selvan Masana harish V.P., III Mech | Innovative project contest, SethuInstitute of Technology | | 29.09.22 | Second prize |
| 11. | T.Roshna, III Mech | National level technical symposium, K.L.N College of Engineering | Dr.Vairamuthu, Asso.Prof,Mech | 30.08.22 | Second prize |
| 12. | Selvan Vishnukumar, Vignesh, Vishnuvardhan, III Mech | National level project contest at Sri Manakulavinayagar Engineering college,Pondicherry | | 15.09.22 | Second Prize with cash award Rs 7500 |

Congratulations!!!

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| 13. | Selvan B.Vishnukumar, III Mech | SIT-YANTRA Project Demonstration | Dr.Vairamuthu, Asso.Prof,Mech | 28.09.2022 | 5th Prize |
| DEPARTMENT OF INFORMATION TECHNOLOGY | | | | | |
| 14. | IshikaSachdeva.M | Thiyagaraja College of Arts | Dr.S.SivaRanjani, Dean (CSE &IT) Dr.G.Susan shiny, Assoc.Prof./IT Dr .A.Hyils Sharon Magadalene, Assoc.Prof /IT Mrs.G.Rajalakshmi, Asst.Prof./IT | 09.11.2022 | 4th Prize |
| 15. | Akshat Sachdeva.G | | | | |
| 16. | Jeyagurudev.K | | | | |
| 17. | Dinesh Kumar.R | | | | |
| 18. | Srisanth.M | | | | |
| DEPARTMENT OF CIVIL ENGINEERING | | | | | |
| 19. | K.S. ChanDra kumar V. Mathiba Kiruthikraj K.S.Mohammed Hassan | Startup Tirunelveli regional Hub | Dr.A. Senthil Kumar (Principal) Dr.A.M. Arun Mohan (ASP/Civil) Ms.S. Bharathi (AP/Civil) Mr.S. Joseph Gnanaraj (AP/Civil) Mr.R.Mafaz Ahamed (AP/civil) | 25.11.2022 | Second Prize |
| 20. | K. Saravanapandi S.Nisha | Startup Tirunelveli regional Hub | Dr.A. Senthil Kumar (Principal) Dr.A.M. Arun Mohan (ASP/Civil) Ms.S. Bharathi (AP/Civil) Mr.S. Joseph Gnanaraj (AP/Civil) Mr.R.Mafaz Ahamed (AP/civil) | 25.11.2022 | Third Prize |

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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|-----|----------------------|--|---------------------------------------|------------|-----------|
| 21. | Dhamodharan S | Tech Future Hackathon - IID Delhi | Dr.S.Vijayarajan | 29-11-2022 | Winner |
| 22. | Madhavan R | | | | |
| 23. | Sureshkumar S | Tech Future Hackathon - IID Delhi | Ms.V.Vaishanvi | 29-11-2022 | Winner |
| 24. | Sundar.B | ACIC Kalasalingam Innovation Foundation | Dr.P.Meenalochini Dr.G.SounDradevi | 12.12.2022 | Winner |
| 25. | Srivarshini S, Sneha | | | | |
| 26. | Rafeek Mohammedu A.M | | | | |
| 27. | SudharsanP.K | | | | |
| 28. | Dhivakar S | Medtech Hackathon Crescent Innovation & Incubation Council Chennai | Dr.S.Vijayarajan Ms.V.Vaishanvi | 19.11.2022 | 1st Prize |
| 29. | Amarnath P | | | | |
| 30. | Dhayanithi R | | | | |
| 31. | Dhamodharan S | | | | |
| 32. | Sureshkumar S | | | | |

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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|-----|---------------------------------------|-----------------------|--|--------------------|----------|
| 33. | Mr.S.Manobala Mr.Manoj Jegan | TNSI 2021 | Dr.Parisabeham Dr.R.Tamilselvi | 19.12.2022 | 1,00,000 |
| 34. | R Venkatesh S.Sahana N.Nandhini | Agri Tech Hackathon | Dr.M.Pandimadevi Dr.N.R.Indira Dr.M.Fathunisha | 10.08.2022 | III |
| 35. | Jegan.U.N Poojavarshini.R.B | Smart India Hackathon | Dr.R.Tamilselvi Dr.M.Parisabeham | 29.08.2022 | II |
| 36. | M Hemanthsachin, A. Abdul Gafoor | SIT Yantra 2k22 | Dr.R.Tamilselvi, Dr.M.Parisabeham, T.Ruba | 27.9.22 to 28.9.22 | I |
| 37. | Veeramanikandan Vishnu | SIT Yantra 2k22 | Dr.R.Tamilselvi, Dr.M.Parisabeham, T.Ruba | 27.9.22 to 28.9.22 | III |
| 38. | Veeramanikandan Vishnu | SIT Yantra 2k22 | Dr.R.Tamilselvi Dr.M.Parisabeham | 27.9.22 to 28.9.22 | VII |

DEPARTMENT OF AGRICULTURE ENGINEERING

| | | | | | |
|-----|--|---|---------------------------|--------------------------------|---|
| 39. | Sabari Madhumitha V, Abinayashree A and Rishika S U | National Horticultural Conference, Kalasalingam University | Dr. Kannan K, HOD-Agri | 10th and 11th November 2022 | First Prize for oral or paper presentation |
| 40. | Yaseen Sabnaa L, Vaijeyanthi S and Usha Nandhini, IV Year | National Seminar, SITBIOTALK 2022, Dept. of Biotechnology, SIT | Dr. Kannan K, HOD-Agri | 28th September 2022 | Third Prize for Paper Presentation |

Congratulations!!!

| FIRST YEAR | | | | | |
|------------|---------------------|---------------------------|-------------------|------------|---------------|
| 36. | P.Padma Sriha | Decrepting | Dr D.Lakshmanaraj | 18.10.2022 | Runner |
| 37. | B.Srilatha | Robotics | Dr D.Lakshmanaraj | 28.09.2022 | Winner |
| 38. | G.R.Deepaajenani | Robotics | Dr D.Lakshmanaraj | 28.09.2022 | Winner |
| 39. | M.Barhana Nasrin | Elouction | Dr D.Lakshmanaraj | 10.10.2022 | Second Runner |
| 40. | S.Aathifa | Robotics | Dr D.Lakshmanaraj | | Runner |
| 41. | A.Vijay | Put The Screw on | Dr D.Lakshmanaraj | 27.09.2022 | Second Runner |
| 42. | T.Senthil Kumaran | Robotics Workshop | Dr.Indira | 28.09.2022 | Runner |
| 43. | S.Subiksha | Robotics Workshop | Dr.Indira | 28.09.2022 | Runner |
| 44. | S.Subiksha | Project Presentation | Dr.Indira | 18.10.2022 | Runner |
| 45. | C.Preethvijay | Yanthra | Dr V.Revathy | 27.09.2022 | Second Runner |
| 46. | R.Ram Pandiyar | Yanthra | Dr V.Revathy | 27.09.2022 | Second Runner |
| 47. | G.Madhan | Yanthra | Dr V.Revathy | 27.09.2022 | Second Runner |
| 48. | N.Sailesh | Yanthra | Dr V.Revathy | 27.09.2022 | Second Runner |
| 49. | K.Preeven Sethu Vel | Yanthra | Dr V.Revathy | 27.09.2022 | Second Runner |
| 50. | P.Harshini | Verse Writing Competition | Dr.Rekha | 18.10.2022 | 1st Winner |
| 51. | S.Ashwathikaa | Paper Presentation | Dr.I.Jayalakshmi | 14.10.2022 | 1st Winner |
| 52. | S.Yogaraj | Debate Tournament | Dr.Rekha | 25.11.2022 | 1st Winner |
| 53. | J.Vickraman | Essay Writing | T.Indhira | 20.12.2022 | 1st Winner |

Congratulations!!!



Dr.A.Saravana Kumar, Associate Professor, Mechanical Engineering recognized as a Supervisor (Ref.No: 4020064) under Mechanical Engineering in Centre for Research, Anna University, Chennai.



Dr.R.Aghila, Professor, Computer Science and Business Systems recognized as a Supervisor (Ref.No:4140056) Under Information and Communication Engineering, in Centre for Research, Anna University, Chennai.



**Following research scholars have been awarded with PhD degree during last year
During July 2022 to December 2022**

- 1.Dr. S. Regina, Full time researchscholar under supervision of Dr. A.Merline, Professor and Dean, Department of ECE, Sethu Institute of Technology
- 2.Dr.J.Vairamuthu, Part time research scholar, Associate Professor, Department of Mechanical Engineering, Sethu Institute of Technology, under the supervision of Dr.A.Senthilkumar, Principal, Sethu Institute of Technology
- 3.Dr.K.Thavasilingam, Part time research scholar, Assistant Professor, Department of Mechanical Engineering, Eswari Engineering College, Chennai, under the supervision of Dr.A.Senthilkumar, Principal, Sethu Institute of Technology
- 4.Dr.V.Antony Vincent, Part time research scholar, Assistant Professor, Department of Mechanical, Noorul Islam Universiy, under the supervision of Dr.C.Kailasanathan, Professor, Department of Mechanical Engineering, Sethu Institute of Technology have been awarded with PhD degree during December 2022

Congratulations!!!

5. Dr.T.Gangadharan, Part time research scholar, Associate Professor, Department of Mechanical Engineering, Sethu Institute of Technology, under the supervision of Dr.A.Senthilkumar, Principal, Sethu Institute of Technology
6. Dr.Sridhar S V, Assistant Professor, Department of Mechanical Engineering, Srividya Engineering college, under the supervision of Dr.G.D.Sivakumar, Professor and Dean Mechanical, Sethu Institute of Technology
7. Dr.M.Pandimadevi, Assistant Professor, Department of Electronics and Communication Engineering, Sethu Institute of Technology, under the supervision of Dr.R.Tamilselvi, Professor and PG-Head, Department of ECE, Sethu Institute of Technology
8. Dr.M.Fathu Nisha, Assistant Professor, Department of Electronics and Communication Engineering, Sethu Institute of Technology, under the supervision of Dr.P.Vasuki.
9. Dr.P.Meenalochini, Assistant Professor, Department of Electrical and Electronics Engineering, Sethu Institute of Technology, under the supervision of Dr.E.Sakthivel

CALL FOR INNOVATIVE CONTESTS

| Sl.No | Name of the Event | Organizer | Type of the Event | Date of the Event |
|-------|-------------------------|----------------|-------------------------|---------------------------|
| 1. | TNSI 2022 | EDII Tamilnadu | Innovative idea Contest | 31 st Jan 2023 |
| 2. | e-Yantra Hackathon 2023 | E yantra | Hackathon | 9 th Jan 2023 |
| 3. | IEEE SETC | IEEE | Innovative idea Contest | 28.02.2023 |

CALL FOR PROPOSALS

| Sl.No | Name of the Event | Organizer | Type of the Event | Last day of Submission |
|-------|--|--|-----------------------|--|
| 1. | Biotechnology Ignition Grant Scheme` | BIRAC | Funding upto 50 Lakhs | Call Opens 1st Jan 2023 Call Ends 15th Feb 2023 |
| 2. | Accelerated Development Of Particularly Vulnerable Tribal Groups (PVGTS) | Ministry of Science and Technology Department of Science and Technology | Funded Project | January 15 th , 2023 |
| 3. | SERB POWER Mobility | SERB | Funded Project | Jan 31 st 2023 05:00 PM |
| 4. | SERB POWER Translation Grant | SERB | Funded Project | Jan 31 st 2023 05:00 PM |
| 5. | Artificial intelligence (AI) applications in agriculture & plant science | Department of Biotechnology | Funded Project | 08.12.2022 to 21.01.2023 |
| 6. | Call for R&D project proposals on 'Human Genetic Diseases' | Department of Biotechnology | Funded Project | 19.12.2022 to 31.01.2023 |
| 7. | Call for Proposals under Vaccine Research & Development | Department of Biotechnology | Funded Project | 22.12.2022 to 20.01.2023 |

Editorial Team

Dr.M.ParisaBeham, Prof.& Head/ECE
 Dr.R.Tamilselvi, Prof & PG Head/ECE
 Dr.P.Meenalochini, Asso.Prof/EEE
 Dr.S.Ramesh, Prof/English



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*B.E. Mechanical Engineering **
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*B.E. Electrical and Electronics Engineering **
*B.Tech. Information Technology **
B.E. Civil Engineering
B.E. Biomedical Engineering
B.Tech. Agricultural Engineering
B.Tech. Computer Science and Business Systems
B.Tech. Biotechnology
B.Tech. Artificial Intelligence and Data Science
B.E. Computer Science and Design
*B.E Computer Science and Engineering
(Artificial Intelligence and Machine Learning)*
*B.E Computer Science and Engineering (Cyber Security)**
*B.E Computer Science and Engineering (Internet of Things)**

Post Graduate Programmes

M.E. CAD/CAM
M.E. Communication Systems
M.E. Computer Science and Engineering
M.E. Power Electronics and Drives
M.E. Structural Engineering

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