

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2022 to June 2023

B.E. - ELECTRONICS & COMMUNICATION ENGINEERING

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SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2022 to June 2023

B.E. - ELECTRONICS & COMMUNICATION ENGINEERING

International Journals:

1. ECE/2022-23/IJP/2 Ms. Nethraa Sivakumar, Ms. Pooja Srinivasan, Mr. Nikhil Viswanath, (UG-ECE 2018-2022) Dr. N. Venkateswaran, Prof/ECE published a paper titled “Decision Tree Based Radio Link Failure Prediction for 5G Communication Reliability” in the ITU Journal on Future and Evolving Technologies, vol. 3, pp. 1-16, July 2022. (Others, IF: 0.03)
2. ECE/2022-23/IJP/20 Dr. R. Kishore, ASP/ECE, Dr. I. Ioannou, Dr. C. Christophorou, University of Cyprus, Dr. N. Prabagarane, ASP/ECE, Dr. V. Vassiliou, Mr. S. Vignesh, Mr. H. Vinayak, Mr. S. Venkatesh, (UG-ECE 2013-2017) Dr. A. Pitsillides, University of Cyprus published a paper titled “A Security Protocol for D2D Communications in 5G Networks using Elliptic Curve Cryptography” in the International Journal of Information Security, vol. 21, pp. 1389-1408, October 2022. (Clarivate Analytics, IF: 2.427)
3. ECE/2022-23/IJP/40 Dr. N. Edna Elizabeth, Prof/ECE, Ms. R. Priyanka, Ms. M. M. Muni Priya Darsni, UG-ECE 2018-2022 Batch students published a paper titled “Prevention of Road Accidents Using Machine Learning” in Journal for Basic Sciences, vol. 23 (2), pp. 93- 101, February 2023. (Scopus Indexed, 6.1)
4. ECE/2022-23/IJP/61 Ms. Tejaswini Panati, Ms. I. Sai Deepika, UG-ECE 2017-2021 Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Modeling and performance analysis of open-loop remotely operated vehicles ORCA” in the IAES International Journal of Robotics and Automation (IJRA), vol. 12 (1), pp. 108-124 , March 2023. O
5. ECE/2022-23/IJP/58 Dr. S. Aasha Nandhini, AP/SRMIST, Dr. R. Hemalatha, ASP/ECE, Dr. S. Radha, VP/SSN CE, Ms. Shreya Gaur, UG-ECE 2017-2021 Batch, Dr. R. Selvarajan, Director/NRCB published a paper titled “A smart agriculturing IoT system for banana plants disease detection through inbuilt compressed sensing devices” in Multimedia Tools and Applications, pp. 1-21, May 2023 (Published Online), DOI: <https://doi.org/10.1007/s11042-023-15442-6>. (Clarivate Analytics, IF: 2.577)

6. ECE/2022-23/IJP/53 Dr. K. S. Vishvaksenan, ASP/ECE, Dr. R. Kalidoss, ASP/ECE, Dr. B.Partibane, ASP/ECE, Ms. E. Nivetha, UG-ECE 2020-2024 Batch published a paper titled “Broadband Multiple input Multiple output antenna for sub 6 GHz 5G communications” in the International Journal of communication systems, pp. 1-11, April 2023 (Published Online), DOI: 10.1002/dac.5506 (Clarivate Analytics, IF: 1.882)

International Conferences:

1. ECE/2022-23/INCP/4 Mr. G. Karthik Sriram, UG-ECE 2020-2024 Batch student, Dr. M. Anbuselvi, ASP/ECE presented a paper titled “Machine Learning Approaches for Battery Range Prediction in EVs” at the 4th International Conference on Power and Embedded Drive Control (ICPEDC 2023), organized by Dept. of EEE, SSNCE during January 24-25, 2023.
2. Ms. R. Vinu Abinayaa, Ms. G. Varshini, Ms. Swathi Ramanathan, UG-ECE 2019-2023 and Dr. K. Muthumeenakshi, ASP/ECE presented a paper titled “Analysis of millimeter wave path loss prediction using machine learning techniques” in the International Conference on Wireless Communications Signal Processing and Networking conducted by the department of ECE, SSN College of Engineering during March 29-31, 2023
3. ECE/2022-23/INCP/10 Dr. C. Annadurai, ASP/ECE, Dr. I. Nelson, ASP/ECE, Ms. R. Nandhana, UG-ECE 2019-2023 batch student presented the paper titled “Development of AntiCollision System in Ashok Leyland Chassis Assembly” on 28.04.2023 in the PECTEAM 2K23 - IConIC International Conference organized by Panimalar Engineering College, Chennai during April 28-29, 2023.
4. ECE/2022-23/INCP/11 Dr. C. Annadurai, ASP/ECE, Dr. I. Nelson, ASP/ECE, Ms. S Abitha, Ms. K. Brindha UG-ECE 2019-2023 batch students presented the paper titled “Left Ventricular Diastolic Dysfunction and Heart Disease Prediction” on 28.04.2023 in the PECTEAM 2K23 -IConIC International Conference organized by Panimalar Engineering College, Chennai during April 28-29, 2023.
5. ECE/2022-23/INCP/12 Mr. S. Karthik, Ms. K. Nethra Prakash, Ms. A. Shafiya Sidrath, UGECE 2019-2023 batch students, Dr. B. Ramani, ASP/ECE presented the paper titled “Classification of Steel Wire Ropes using Signal Processing and Machine Learning” on 28.04.2023 in 6th International Conference on Intelligent Computing (IConIC) organized by Panimalar Engineering College, Chennai during April 28-29, 2023. **(Best Paper Award)**
6. ECE/2022-23/INCP/13 Ms. M. Emimal, RS/ECE, Dr. W. Jino Hans, ASP/ECE, Dr. T. M.Inbamalar, Dr. Mahiban Nesaian, Mr. N. V. Tejas, Mr. T. R. Sri Sudarsan, Mr. B. Surya Prakash, UG-ECE 2020-2024 batch students presented a paper titled

“Classification of EMG Signals for Myoelectric Prosthesis with Feature Images” in the 4th International Conference for Emerging Technology (INCET) organized by Jain College of Engineering, Belagavi during May 26-28, 2023.

National Conferences:

1. ECE/2022-23/NCP/2 Ms. S. Balambal, Ms. S. Dhivya, Ms. R. Daphnie Ritika, UG-ECE 2019-2023 Batch students, Dr. C. Vinoth Kumar, ASP/ECE presented a paper titled “Feature Fusion Based Face Image Retrieval” in the Eighth National Conference on Information and Communication Technologies (NCICT 2023) organized by Department of ECE, SSN CE on 17.03.2023.
2. ECE/2022-23/NCP/3 Ms. V. Ramya, Mr. V. Narendiran, Ms. R. Vishali, UG-ECE 2019-2023 Batch students Dr. C. Vinoth Kumar, ASP/ECE, Dr. A. Jawahar, Prof/ECE presented a paper titled “Non-invasive Monitoring of Breathing Patterns from the Neck-Pit Region” in the Eighth National Conference on Information and Communication Technologies (NCICT 2023) organized by Department of ECE, SSN CE on 17.03.2023.
3. ECE/2022-23/NCP/7 Mr. M. Abiisek, Ms. S. Gayathri, Ms. N. Jesline, UG-ECE 2019-2023 Batch students, Dr. G. Durga, ASP/ECE participated and presented a paper titled “Performance Analysis and Optimization of FinFET based Biosensor” in the Eighth National Conference on Information and Communication Technologies (NCICT 2023) organized by Department of ECE, SSN CE on 17.03.2023.
4. ECE/2022-23/NCP/8 Mr. B. Girish Babu, Ms. Keerthana Reddy, UG-ECE 2019-2023 Batch students, Dr. G. Durga, ASP/ECE participated and presented a paper titled Novel Design of FinFET Based Reconfigurable FET (RFET)” in the Eighth National Conference on Information and Communication Technologies (NCICT 2023) organized by Department of ECE, SSN CE on 17.03.2023.
5. Tarini Shankar, Vignesh S, UG-ECE 2019-2023 Batch students, Kaythry. P, ASP/ECE & Edna Elizabeth N, Prof/ECE, "A Smart Building based on WoT Paradigm" 8th National Conference information and communication technologies on 17th March 2023 at Sri Sivasubramaniya Nadar College of Engineering, Chennai.

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Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2022 to June 2023

M.E. - APPLIED ELECTRONICS

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STUDENT PUBLICATIONS

July 2022 to June 2023

M.E. - APPLIED ELECTRONICS

International Journals:

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2022 to June 2023

M.E. - COMMUNICATION SYSTEMS

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SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2022 to June 2023

M.E. - COMMUNICATION SYSTEMS

International Journals:

1. ECE/2022-23/IJP/30 Mr. J. Joannes Sam Mertens (PG – CS 2017-2019 Batch), Dr. N. Edna Elizabeth, Prof/ECE, Dr. P.Kaythry published a paper titled “On-Board Diagnostics Based In-Vehicle Monitoring System Using Internet of Vehicles” in Gradiva Review Journal, vol. 9 (1), pp. 504-509, January 2023. (Scopus Indexed, 0.101)
2. ECE/2022-23/IJP/39 Dr. S. Karthie, ASP/ECE, Ms. SL. Manibala (PG – CS 2018-2020 Batch) published a paper titled “Novel fractal-based dual-mode quasi-elliptic microstrip band-pass filter for WLAN applications” in the journal Applied Physics A, vol. 129 (3), pp. 1-10, February 2023.(Clarivate Analytics, IF: 2.983)

International Conferences:

1. ECE/2022-23/INCP/2 G. Pavatharani Ganesan (PG – CS 2020-2022 Batch), C. Vinoth Kumar and A. Jawahar presented a paper titled “Cell Tracking and Object Classification in microscopic images using CNN”, presented in the International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET-2022), organized by the Jerusalem College of Engineering, Chennai on 08.07.2022.
2. ECE/2022-23/INCP/1 Swati Vivekananthan (ME-CS 2020-2022), P. Vijayalakshmi attended and presented a paper titled "Forensic Speech Enhancement of Voiceprints and Speaker Identification under mismatched conditions" in 2022 International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT) conducted by the IEEE Bangalore chapter held on 09.07.2022

National Conferences:

1. ECE/2022-23/NCP/4 Mr. J. V. Jebin Jose, PG-CS 2021-2023 Batch student, Dr. S. Karthie, ASP/ECE presented a paper titled “Design of Microstrip Bandpass Filter with a Notch for wideband applications in the Eighth National Conference on Information and Communication Technologies (NCICT 2023) organized by Department of ECE, SSN CE on 17.03.2023.

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July 2022 to June 2023

M.E. - VLSI DESIGN

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SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

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M.E. - VLSI DESIGN

International Journals:

International Conferences:

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July 2022 to June 2023

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SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

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July 2022 to June 2023

RESEARCH SCHOLARS (FULL-TIME)

Book Chapter:

1. ECE/2022-23/BC/1 Ms. A. Gowthami, RS/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSN CE published a book chapter titled “Transdermal Injection with Microneedle Devices in Healthcare Sector: Materials, Challenging Fabrication Methodologies, and its Limitations” In: Guha, K., Dutta, G., Biswas, A., Srinivasa Rao, K. (eds) in MEMS and Microfluidics in Healthcare, Lecture Notes in Electrical Engineering, vol. 989, pp. 183-201, Springer, Singapore, March 2023.
2. ECE/2022-23/BC/2 Mr. J. Prithvi, RS/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSN CE, Dr. C. Joshitha, Faculty/ Koneru Lakshmaiah Education Foundation, Ms. A.Gowthami, RS/ECE published a book chapter titled “Critical Review and Exploration on Micro-pumps for Microfluidic Delivery” In: Guha, K., Dutta, G., Biswas, A., Srinivasa Rao, K. (eds) in MEMS and Microfluidics in Healthcare, Lecture Notes in Electrical Engineering, vol. 989, pp. 65-100, Springer, Singapore, March 2023.

International Journals:

1. ECE/2022-23/IJP/6 Mr. Rama Krishna Reddy Venna, RS/ECE, Dr. G. Durga, ASP/ECE published a paper titled “Design of novel area-efficient coplanar reversible arithmetic and logic unit with an energy estimation in quantum-dot cellular automata” in The Journal of Supercomputing, pp. 1-18, August 2022 (Published Online), DOI: <https://doi.org/10.1007/s11227-022-04740-9>. (Clarivate Analytics, IF: 2.557)
2. ECE/2022-23/IJP/9 Mr. S. Johanan Joysingh, RS/SSN, Dr. P. Vijayalakshmi, Prof & Head/ECE, Dr. T. Nagarajan, Prof & Head/CSE/SNU Chennai published a paper titled “Chirp group delay based onset detection in instruments with fast attack” in the journal Circuits, Systems and Signal Processing, September 2022 (Published online) DOI:10.1007/s00034-022-02183-4. (Clarivate Analytics, IF: 2.311)
3. ECE/2022-23/IJP/12 Ms. K. Bhuvaneswari, SRF/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSNCE, Dr. P. Govindasamy, SSN RC, Palanivel Thangavelu/ Periyar University, Vignesh Shanmugam/ Periyar University, Elavarasan Nagaraj, SSN RC,

Venkatesh Gopal, SSN RC, Dr. M. Srinivasan, SSN RC, Dr. P. Ramasamy, Dean/Research published a paper titled “Strontium-supported erbium oxide nanoparticles for efficient organic pollutant degradation under UV–Visible light” in the Journal of Materials Science: Materials in Electronics, vol. 33 , pp. 20384-20398, September 2022. (Clarivate Analytics, IF: 2.478)

4. ECE/2022-23/IJP/19 Mr. T. Dhakshinamoorthy, RS/ECE, Dr. Prita Nair, Prof/SNU Chennai, Dr. S. Ramprabhu, ASP/ECE, Dr. S. Radha, VP/SSN CE published a paper titled “Honey Comb Structured Angularly Stable Band Stop Frequency Selective Surface Based on hexagonal loop unit cells” in IETE - Journal of research, October 2022 (Published Online), DOI: <https://doi.org/10.1080/03772063.2022.2130450> (Clarivate Analytics, IF: 1.877)
5. ECE/2021-22/IJP/88 Ms. G. Annalakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Fractal adaptive weight synthesized–local directional pattern-based image classification using enhanced tree seed algorithm” in Environmental Science and Pollution Research, November 2022 (Published Online), DOI: <https://doi.org/10.1007/s11356-022-20265-3> (Clarivate Analytics, IF: 4.223)
6. ECE/2022-23/IJP/25 Ms. J. Abanah Shirley, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Dr.B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/ SSN CE published a paper titled “Bio-compatible piezoelectric material based wearable pressure sensor for smart textiles” in Smart Materials and Structures, vol. 31, pp. 1-10, November 2022. (Clarivate Analytics, IF: 3.585)
7. ECE/2022-23/IJP/28 Mr. S. Johanan Joysingh, RS/SSN, Dr. P. Vijayalakshmi, Prof & Head/ECE, Dr. T. Nagarajan, Prof & Head/CSE/SNU Chennai published a paper titled “Quartered Spectral Envelope and 1D-CNN-Based Classification of Normally Phonated and Whispered Speech” in the journal Circuits, Systems and Signal Processing, December 2022. DOI: 10.1007/s00034-022-02263-5. (Clarivate Analytics, IF: 2.311)
8. ECE/2022-23/IJP/35 Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, VP/SSNCE, Dr. S. Kirubaveni, ASP/ECE, Ms. V. Shyamala, RS/ECE, Dr. G. Iyappan, Dr. R. Govindaraj, SSNRC published a paper titled “Experimental validation of TiO₂ shielded ZnO nanorods synthesized via low temperature solution-based method for sewage system (Gas (CO and CH₄) and acceleration sensing)” in the Journal of Vibration Engineering & Technologies, December 2022 (Published Online), pp. 1-4 DOI: <https://doi.org/10.1007/s42417-022-00826-z>. (Clarivate Analytics, IF: 2.333)
9. ECE/2022-23/IJP/32 Ms. K. Bhuvaneswari, RS/ECE, Dr. S. Radha, VP/SSN CE, Dr. B. S.Sreeja, ASP/ECE, Dr. G. Palanisamy/SSN RC, Dr. T. Pazhanivel, Periyar University published a paper titled “Study of the morphological, structural and

photophysical properties of surfactant modified nano-zero valent iron: electrochemical determination of metal ions and photocatalytic degradation of organic dye” in Journal of Materials Science: Materials in Electronics, vol. 34:277, pp.1-13, January 2023. (Clarivate Analytics, IF: 2.779)

10. ECE/2022-23/IJP/37 Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, VP/SSNCE, Dr. S. Kirubaveni, ASP/ECE published a paper titled “Development of Eco-Friendly TiO₂ Doped ZnO Nanorods Based Dual Functional Sensor for the Sewage System Monitoring” in IEEE Transactions on Nanotechnology, vol. 22, pp. 45-51, January 2023. (Clarivate Analytics, IF: 2.967).
11. ECE/2022-23/IJP/33 Ms. K. Bhuvaneswari, RS/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSN CE, Dr. J. Saranya, Faculty/REC, Dr. G. Palanisamy/SSN RC, Dr. M. Srinivasan/SSN RC, Dr. T. Pazhanivel, Periyar University published a paper titled “Facile assembly of effective carbon quantum dots and multiwall carbon nanotubes supported MnO₂ hybrid nanoparticles for enhanced photocatalytic and anticancer activity” in Inorganic Chemistry Communications, vol. 148, 110250, pp. 1-10, February 2023. (Clarivate Analytics, IF: 3.428)
12. ECE/2022-23/IJP/43 Ms. A. Gowthami, RS/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSN CE published a paper titled “Design, analysis and fabrication of solid polymer microneedle patch using CO₂ laser and polymer molding” in the Drug Delivery and Translational Research, vol. 1, pp. 1-15, February 2023 (Published Online), DOI:10.1007/s13346-023-01296-w (Clarivate Analytics, IF: 5.671).
13. ECE/2022-23/IJP/45 Ms. N. Kavitha, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE published a paper titled “Design and analysis of single layer Ku/K band integrated element reflectarray antenna” in the International Journal of Microwave and Wireless Technologies, pp. 1-10, March 2023 (Published Online), DOI: 10.1017/S1759078723000132 (Clarivate Analytics, IF: 1.09)
14. ECE/2022-23/IJP/49 Ms. A. Gowthami, RS/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSN CE published a paper titled “Effect of hollow microneedle geometry structure on mechanical stability and microfluidic flow for transdermal drug delivery applications” in Microfluidics and Nanofluidics, vol. 27, 25, March 2023 (Published Online), DOI: 10.1007/s10404-023-02636-5. (Clarivate Analytics, IF: 3.09)
15. ECE/2022-23/IJP/56 Ms. K. Bhuvaneswari, RS/ECE, Dr. S. Radha, VP/SSN CE, Dr. B. S. Sreeja, ASP/ECE, Dr. P. Senthil Kumar, Prof/Chem published a paper titled “Development of in-situ electrochemical heavy metal ion sensor using integrated 1D/0D/1D hybrid by MWCNT and CQDs supported MnO₂ nanomaterial” in Environmental Research, vol. 225, 115570, April 2023. (Clarivate Analytics, IF: 8.431)
16. ECE/2022-23/IJP/51 Ms. A. Jasmine Vijithra, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Sangeetha, AP/VIT published a paper titled “A four-port wideband filtering monopole MIMO array for sub-6 GHz 5G communications” in the

International Journal of Microwave and Wireless Technologies, pp. 1-10, April 2023 (Published Online), DOI: 10.1017/S1759078723000375 (Clarivate Analytics, IF: 1.09)

17. ECE/2022-23/IJP/52 Ms. A. Jasmine Vijithra, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE published a paper titled "A novel filtering monopole antenna for 5G communications" in COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, pp. 1-10, April 2023 (Published Online), DOI: 10.1108/COMPEL-12-2022-0435 (Clarivate Analytics, IF: 0.808)
18. ECE/2022-23/IJP/59 Ms. N. Kavitha, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr.S. Karthie, ASP/ECE published a paper titled "Development of Bandwidth Enhanced X-Ku Band Reflectarray Antenna Using a Novel Design Strategy" in the International Journal of Communication Systems, May 2023 (Published Online), DOI: 10.1002/dac.5552 (Clarivate Analytics, IF: 1.882)
19. ECE/2022-23/IJP/56 Ms. I. Divya, RS/ECE, Dr. K. Muthumeenakshi, ASP/ECE, Dr. S.Radha, VP/SSNCE published a paper titled "Statistical analysis of radiofrequency energy harvester with bandpass filter for ultra-low power applications" in the International Journal of Numerical Modelling, vol. 36 (4), pp. 1 - 25, November 2022. (Clarivate Analytics, IF: 1.6)

International Conferences:

1. Ms. M. Emimal, RS/ECE, Dr. W. Jino Hans, ASP/ECE, Dr. T. M.Inbamalar, Dr. Mahiban Nesaian, Mr. N. V. Tejas, Mr. T. R. Sri Sudarsan, Mr. B. Surya Prakash, UG-ECE 2020-2024 batch students presented a paper titled "Classification of EMG Signals for Myoelectric Prosthesis with Feature Images" in the 4th International Conference for Emerging Technology (INCET) organized by Jain College of Engineering, Belagavi during May 26-28, 2023.

National Conferences:

1. Bhuvaneshwari A J, RS/ECE and Kaythry P, ASP/ECE, "Enhanced Visual Cryptosystem Using BLAKE 2 Hash Algorithm", 8th National Conference information and communication technologies on 17th March 2023 at Sri Sivasubramaniya Nadar College of Engineering, Chennai.