



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

Accredited by NAAC

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

CASE STUDY: DECENTRALIZATION OF AUTHORITY



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CIRCULAR 2023-2024

CIR.NO: SANCET/PRT/CIR/50

Date: 23.04.2024

It is informed to all the staff members that 7th National Conference on Advancements in Engineering, Science and technology 2024 (NCAEST'24) is planned to conduct in the month of May 2024. In this regard various committees are formed to speed up the work with meticulous planning. Mr. K. Saravanan, AP/MECH is the convener for this conference and all the staff members are requested to give their whole hearted co-operation.

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Ms. T.GAYATHRI, AP/CSE

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1. Secretary
2. Dean & Vice Principal
3. IQAC
4. All HODs
5. Administrative Officer
6. Library
7. Hostel
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SANCET

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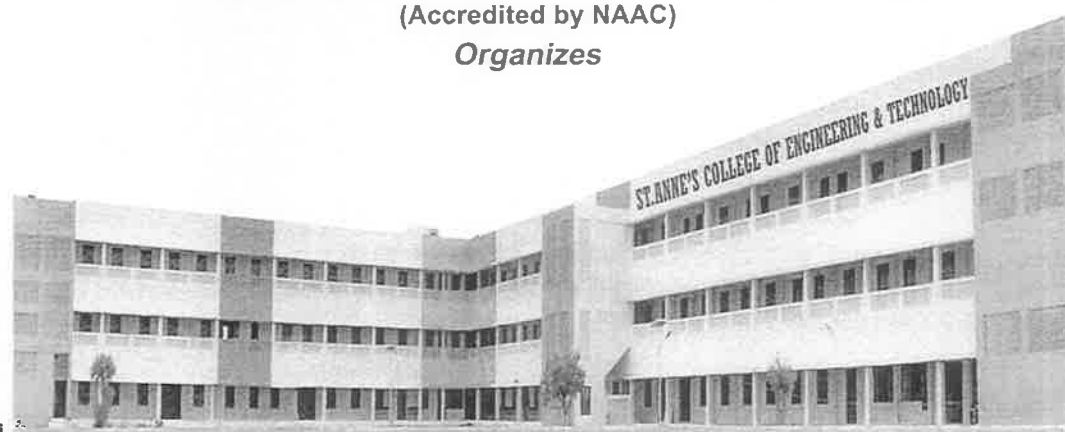
ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

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(Accredited by NAAC)

Organizes



7th National Conference

on

Advancements in

Engineering, Science and Technology

(NCAEST '24)

02nd May 2024

Address for Communication

The Organizer

NCAEST'24

St. Anne's College of Engineering and Technology

Panruti Taluk, Cuddalore District

Tamilnadu, India- 607 106

Mobile : 91-9943266550

Email : ncrdset@stannescet.ac.in

Website : www.stannescet.ac.in/ncaest24/

SCAN ME



About the Congregation of Sister's of St. Anne

The Congregation of the Sisters of St. Anne, Tiruchirapalli, founded by the Servant of God, Rev. Mother Annammal, in 1858, strives to live up to the charism of the Foundress, "Simplicity in life and Service to the poor", for the past 164 years. The Congregation follows the footsteps of its Foundress, and involves in multifarious service like Evangelization, Education, Social work and Medical service with explicit involvement in caring the differently abled. With this purposeful vision, St. Anne's College of Engineering and Technology is established by the Congregation in the year 2009, to uplift the social status of poor, weak, marginalised and destitute young women, particularly widows, from the unethical and evil clutches of society through education.

About the Institution

Reading the signs of the times, the Congregation of the Sisters of St. Anne, Tiruchirapali has vowed to place the thrust on opting for the poor. It has been working for the cause of the education and the upliftment of the poor and the downtrodden. After a thorough study, reflection, prayer and discernment, we have proposed to extend our mission by establishing the professional bachelor degree programmes (B.E - Mechanical Engineering, B.E - Computer Science and Engineering, B.E - Electrical and Electronics Engineering, B.E - Electronics and Communication Engineering) in the name and style of St. Anne's College of Engineering and Technology, chiefly focusing on the option for the economically challenged people in the academic year 2009-2010.

Our aim is to give hope and dignity to the student community through education by means of which character is moulded, strength of mind is increased, intellect is enhanced and also by means of which one can stand on one's own feet. We train the youth to see the good in every human being and to take the best out of each individual, to inculcate a strong sense of values in every student and to help every person promote love, peace and justice in the society.

About the Conference

Seventh National Conference on Advancements in Engineering, Science and Technology 2024 (NCAEST'24) will target state-of-the-art as well as emerging topics pertaining in the field of Science, Engineering and Technology and effective strategies for its implementation. It also provides a premier interdisciplinary platform for researchers, academicians, industry persons, practitioners, educators and students to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of innovation. The objective of this National conference is to provide opportunity for the participants to interact and exchange ideas, experience and expertise in the current trend and strategies. Besides this, participants will also be enlightened about vast avenues, current and recent technological developments in various domain and its applications will be thoroughly explored and discussed.

CONFERENCE THEMES

Computer Science

1. Artificial Intelligence And Machine Learning
2. Cyber Security
3. Cloud Computing
4. Big Data Analytics
5. Internet of Things (IoT)
6. Natural Language Processing(NLP)
7. Block Chain Technology

Electrical

1. Smart Grid and Microgrid Systems
2. Renewable Energy systems
3. Emerging trends in Power system
4. Power Electronics controller
5. Evehicle charging design
6. Wireless charger for E-vehicles

Electronics & Communication

1. 5G Technology and Beyond
2. Green Electronics
3. Biomedical Image and Signal Processing
4. Robotics and Automation
5. Antenna and advanced VLSI design
6. Internet of Things (IoT),
7. Cognitive radio and networks
8. Ultra wide band communication

Mechanical

1. Green Manufacturing
2. Computational Fluid Dynamics
3. Alternative Fuels
4. Simulations of structure and component
5. New Product Development product

Engineering Science

1. Recent trends in applied mathematics
2. English language and globalisation
3. environment and green chemistry
4. Emerging physics in nano science and nano technology.

Important Dates

Submission of full paper	: 26-04-2024
Intimation of acceptance	: 29-04-2024
Registration	: 30-04-2024

Paper Submission

Authors are invited to submit full length paper in the prescribed format available in the conference website. All the accepted papers abstracts will be published in the conference proceedings with ISBN Number.

Conference Link: <https://stannescet.ac.in/ncaest24/>

Extended version of selected papers will be recommended for publication in below journals.

Scopus Indexed Journals

1. International Journal of Electrical and Computer Engineering (IJECE),
2. International Journal of Electrical and Electronics Engineering(IJEEE)
3. Journal of Electrical Systems (JES)

Note: Papers submitted by email, fax or post will NOT be accepted.

Registration Fee

UG/PG Students & Research Scholars	: Rs.300
Faculty & Industry Participants	: Rs.500

Payment Modes

The registration fee is to be paid by Demand Draft drawn in favour of "The Principal, St. Anne's College of Engineering and Technology" payable at Panruti.

or

Online payment gateway available on conference website.

or

National Electronic Funds Transfer (NEFT)

Account Number	: 19680100033685
Account Name	: The Principal St. Anne's College of Engineering and Technology
Account Branch	: Panruti
IFSC Code	: FDRL0001968



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7th National Conference on Advancements in Engineering, Science and Technology

NCAEST '24

PROGRAM SCHEDULE

Date: 02.05.2024

Registration			08.30am-09.45am		
Inauguration			10.00am-10.45 am		
Break			10.45am-11.15am		
Session-I			11.15am-01.00pm		
Session-I	Venue	Domain	Chair Person	Moderator	Papers ID
	AUDITORIUM (MARIA BLOCK)	CSE	Dr.S.Sivanesh	Sr.A.Punitha Jilt & Mr.K.Ramesh	NCAEST015, NCAEST016, NCAEST017, NCAEST018, NCAEST019, NCAEST020, NCAEST021, NCAEST022, NCAEST023, NCAEST024, NCAEST025, NCAEST001, NCAEST002, NCAEST003.
	MECHATRONICS LABORATORY (MARIA BLOCK)	S&H & Mech.Engg.	Dr.C.Senthil Kumar	Mrs.S.Ramya & Mr.K.Shanmuga Elango	NCAEST063,NCAEST064, NCAEST065, NCAEST066, NCAEST067, NCAEST068, NCAEST069, NCAEST078, NCAEST079, NCAEST080, NCAEST081, NCAEST082, NCAEST034, NCAEST086, NCAEST087, NCAEST088

	VLSI LABORATORY (ANNAI ANNAMAL BLOCK)	ECE & EEE	Dr. A. UmaMaheswari	Dr.Sr.S.Anita Mary & Mr.S.Sriram	NCAEST026, NCAEST055, NCAEST027, NCAEST056, NCAEST028, NCAEST057, NCAEST029, NCAEST058, NCAEST030 NCAEST059, NCAEST031, NCAEST060 NCAEST032, NCAEST061, NCAEST033 NCAEST062, NCAEST035, NCAEST045 NCAEST036, NCAEST046, NCAEST037 NCAEST048, NCAEST038
Lunch				1.00pm-2.00pm	
Session-II				2.00pm-3.30pm	
	Venue	Domain	Chair Person	Moderator	Papers ID
Session-II	AUDITORIUM (MARIA BLOCK)	CSE	Dr.S.Sivanesh	Sr.A.Punitha Jilt & Mr.K.Ramesh	NCAEST004, NCAEST005, NCAEST006, NCAEST007, NCAEST008, NCAEST009, NCAEST010, NCAEST011, NCAEST012, NCAEST013, NCAEST014
	MECHATRONICS LABORATORY (MARIA BLOCK)	S&H & Mech.Engg.	Dr.C.Senthil Kumar	Mrs.S.Ramya & Mr.K.Shanmuga Elango	NCAEST070, NCAEST071, NCAEST072, NCAEST073, NCAEST074, NCAEST075, NCAEST076, NCAEST077, NCAEST083, NCAEST084, NCAEST085, NCAEST089, NCAEST090, NCAEST091, NCAEST092, NCAEST093, NCAEST094
	VLSI LABORATORY (ANNAI ANNAMAL BLOCK)	ECE & EEE	Dr. A. UmaMaheswari	Dr.Sr.S.Anita Mary & Mr.S.Sriram	NCAEST049, NCAEST039, NCAEST050, NCAEST040, NCAEST051, NCAEST041, NCAEST052, NCAEST042, NCAEST053 NCAEST043, NCAEST054, NCAEST044 NCAEST055, NCAEST056, NCAEST057 NCAEST058, NCAEST059, NCAEST060 NCAEST061, NCAEST062, NCAEST047
Break				3.30pm-4.00pm	
Valedictory				4.00pm-4.30pm	



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7TH NATIONAL CONFERENCE (NCAEST'24)

BUDGET

S. No.	Committee	Amount
1.	Design - Pamphlet, Certificate printing & Postage charges	5000.00
2.	Hospitality and Food - 239 students + Jury + Chief guest	20000.00
3.	Stage and Campus Decoration - Banner(10X15) outside college	2,000.00
4.	Transport, Accommodation & Honorarium for Jury & Chief guest	12,000.00
5.	Reception and Registration <i>u.k</i>	8000.00
6.	Proceeding and Journal Committee (ISBN, Journal publication, CD, Proceedings hard copy)	10,000.00
Total Amount		57,000.00

Participants:

Internal: 193 students (66 Papers)

External: 46 students (26 papers)

239

$$239 \times 300 = 71,700$$

R. Narain
23/4/24

Need Advance amount : Rs. 30,000 / -

R. Mahalan
23.4.24

R. Narain
23/4/24



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**7th NATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING,
SCIENCE AND TECHNOLOGY (NCAEST '24)**

Paper ID	Article Title & Author Name
Department of Computer Science and Engineering	
NCAEST001	A Defensive Approach To Ransomware With Rangan And Hash Conceal <i>Anbarasan .S, Chandru .V, Karthick .K and Manickavasagan .R</i>
NCAEST002	Amlbot: An Ai Powered Transactional Network And Behaviour Analysis To Detect And Prevent Money Laundering Activities <i>Haripriya.A, Subashini.M, Jayasri.V and Abinaya .S</i>
NCAEST003	Automatic Conversion 2d Image To 3d Model <i>Dinesh Balaji .M, Nithin Shiyam .K, Akash .A, and Manavalan .S</i>
NCAEST004	Certificate Locker Using Trust – Centric Blockchain Integrated Capsule Siamese Network Based Digital Certificate Storage And Verification System <i>Vishnupriya .P, Subasri .S, Mariyaasha .J and Ramesh .K</i>
NCAEST005	Detection Of Phishing Websites Using Machine Learning <i>Anbarasan .S, Chandru .V, Karthick .K and Manickavasagan .R</i>
NCAEST006	Fake Product Review Monitoring And Removal For Genuine Online Product Review Using Ip Address Tracking <i>Sathishkumar .R, Vasanthakumar .V, Jeyorgis Aliston .B and Gayathri .T</i>
NCAEST007	Gaurdian Vault Building A Secure Backup Software <i>Angel Marina .M, Jasmine Medona .A and Raj Thilak .D</i>
NCAEST008	Heterogeneous Social Networks Digital Image Privacy Protection System Using Deep Transfer Learning And Block Chain <i>Roshan Willson .V, Muhammad Anas .S, Rajkumar .K and Gayathri .T</i>
NCAEST009	Image Vaccinator An Image Tamper Resilient Using Invertible Neural Network <i>Natarajan .P, Udhayamoothy .R, JefferyParsannaRaj .J and Gayathri .T</i>
NCAEST010	Judicial Evidence Integrity And Security System For Proof Of Fair Judgement Laundering Activities <i>Chandhiya .S, Leelavathi .P, Sivaranjani .L and Nivetha .P</i>
NCAEST011	Online Fake Logo Detection System <i>Bhagyasri .S, Jeeva .A, Jayasri .B and Nivetha .P</i>
NCAEST012	Sensory Detector Of Hazardous Gases In Poultry Farm <i>Logeshwaran .D, Ponkishore .T, Aveenash .S and Ramesh .K</i>
NCAEST013	Sign up Wallet: A Block Chain based Personally Identifiable Information (PII) Masking using Lookup Substitution <i>Sivaranjini .R, Padmavathy .T, Anitha .M and Vijiyalakshmi .R</i>
NCAEST014	Virtualhr: Ai-Driven Automation For Efficient And Unbiased Candidate Recruitment In Software Engineering Roles <i>Keerthika .S, Subasri .G, Agalya .A and Kayalvizhi .K</i>
NCAEST015	A Cyberization System For Bitcoin Money Probe <i>Sanjaikhan S, Karthikeyan, Ramasamy V, Ashok J and Nithya B</i>
NCAEST016	AI Based Surveillance System UsingFace Recognitions Based On Ensemble Learning <i>Vigneshwaran M, Edwin paul E, Aravindh M and Kuppulakshmi G</i>
NCAEST017	Crop Prediction From Multimodal Data Using Deep Learning Classifiers



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Paper ID	Article Title & Author Name
	<i>Vishva E, Yuvaraj P, Krishnaraj S , Mobinraj P and Lakshmidevi B</i>
NCAEST018	Deploying A Medical Artificial Intelligence System For Covid-19 Computer-Aided Diagnosis Through Ai-Assisted Ct Imaging Analysis <i>Arun Kumar A , Anand M and Vimal Raja R , JonhWilliam P</i>
NCAEST019	Enhancing Security In Cloud-Based Health Records Through Blockchain Integration <i>Harinee S, Mugila E, and Vimal Raja R</i>
NCAEST020	Image Vaccinator An Image Tamper Resilient And Lossesless Auto-Recovery Using Invertible Neural Network <i>Lakshmanan E , Santhosh M , Infantraj A , Ramkumar M and Pradebha T</i>
NCAEST021	Lawyer Bot: An Ai-Powered Virtual Assistant For Accessible Legal Guidance And Promotion Of Legal Literacy In India <i>Abitha S , Buvaneshwari S , Kangavalli S , Ishwarya E and Ragavi R</i>
NCAEST022	Restore Sight For Blindness Using Vision Transformer <i>Bhavani S , Mala V, Selvakumari S, Swetha R and Suriya Prakash P</i>
NCAEST023	Schemesbot: Intelligent Conversational Interface For Accessingtamil Nadu Government Schemes <i>Eshak J , Sankar S , Senthamizhan A , Sabari Shanmuga Priyan K and Ganesh P</i>
NCAEST024	Smart Device Security Units In Icu With Access Over Patient Data Monitoring System <i>Kalaiselvi S , Arthip P , Susmitha M , Varsha K And Lakshmidevi B</i>
NCAEST025	Voice Assistant Technology Enhances Communication And Accessibility For Amyotrophic Lateral Sclerosis (Als) Patients <i>Sampath S V , Sanjay A , And Sivaprakash T</i>
Department of Electrical and Electronics Engineering	
NCAEST026	Power Quality Enhancement in Sensitive Local Distribution Grid Using Interval Fuzzy Logic Controlled DSTATCOM <i>Chandrasekar V, Tamilarasan T, and Alaudeen A</i>
NCAEST027	Solar Based Wireless Charging of E-Vehicles with Battery Fault Protection in Road Sides <i>Kaviyathamizhan V, Velan T, Vignesh G, Vikram M and Vimalraj R</i>
NCAEST028	The Progression of Load Redistribution Attacks in Cyber Physical Power Systems <i>Venkatraman Ethirajan and Dr. S P. Mangaiyarkarasi</i>
NCAEST029	AI IoT with Industrial Workers Safety Assurances in Oil and Gas Industries with Device Fault Environmental Fault and Alert System <i>Aadhilakshmi k, Priyanka k, Tulasimani S, Keerthana R</i>
NCAEST030	An Iot- Based Intelligent Street Lightning System For Energy Conservation <i>Karkuzhali G , and Ramya D , Vijay</i>
NCAEST031	A Deep Learning Approach for Parkinson's Disease Severity Assessment <i>Venkatraman E, Vijayakumar R , Nilofar M and Nisha</i>
NCAEST032	Turbofan Engine Remaining Useful Life Prediction Using Machine Learning <i>Kanimozhi N, Shiyam G N and Giri S</i>
NCAEST033	Advanced GPS Safety System for Electric Vehicles <i>Kamaleshwar S , Vengatachalam M , Karthick S Sanjaikumar G and Boopalan S</i>



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Paper ID	Article Title & Author Name
NCAEST034	Design of a Three Phase High Voltage Gain Converter for Fuel Cell <i>M. Ramesh Kumar, Mrs. V. Anantha Lakshmi, M. Rama Krishna, B. Ravi Shankar</i>
NCAEST035	Optimal Load Forecasting of Regional Distribution Network Using GWO Algorithm <i>Dhivagar M, Ragul R, Vignesh V and Sundara Pandiyan A</i>
NCAEST036	Optimization of DG Allocation in Distribution Network by Antlion Algorithm <i>Aravindan A, Aslin Joseph S, Abinash A and Balaji V</i>
NCAEST037	Improved Single Stage Transformer less Buck-Boost Inverter for Electric Vehicle Charger <i>Sanjai. D, Vivekanandhan. V, Gnanamoorthy. R, Samrozario. A and Dr Shanmugan V</i>
NCAEST038	Design of a Wireless Electric Vehicle Charging Systems using Interleaved Boost Converters <i>Antony George.S R, Ragul.R, Kirubanidhi.T, Vallarasu.S, and Ramesh J</i>
NCAEST039	Dragonfly Optimization Algorithm Based Allocation and Sizing of Economic FACTS Under Contingency Condition <i>Muthukumar. M, Praveenraj. R, Chandru. P, vasanthakumar. S and Prabakaran. S</i>
NCAEST040	Optimizing Combined Emission Economic Dispatch Problem Using Political Optimizer Algorithm <i>Giridharan R, Rishidharan S, Aravindhan M and Sriram K</i>
NCAEST041	Microgrid System with Demand Response Program using Grasshopper Optimization Algorithm for Economical Operation <i>Bharani S, Monika R, Rajeswari A and Dr Yogambari V</i>
NCAEST042	Automatic Solar Cleaner and Solar Tracking Based on Arduino <i>Gurumoorthi P, Sedhu S, Tamizhmani T and Arthi T</i>
NCAEST043	Optimal Network Reconfiguration for Loss Minimization of Distribution System Using Cheetah Optimizer <i>Iyyappan I, Mohan raj S, Saravanan S, Sasidhar A and Balaji V</i>
NCAEST044	Interconnected Hydroelectric Power System with Superconducting Magnetic Energy Storage Units, Load Frequency Control <i>Adhirai V, Abitha A, Jegatheswari A and Shanmugam V</i>
Department of Electronics and Communication Engineering	
NCAEST045	Cognitive Smart Street Lighting Solution <i>S. Rajasri, M. Kayalvizhi, U. Nivetha, K. Srimathi D. Umamaheswari, R. RadhaKrishnan</i>
NCAEST046	AI Based Auto Micro Irrigation System <i>D.Chandru. S.Srihari. A.Anilkumar. S.Balabasker</i>
NCAEST047	AI-Driven Alarms for Enhanced Industrial Security <i>Y. Shekina Jebastina, N. Shanmugapriya, G. Leela, S. Durai Raj</i>
NCAEST048	AI Enabled Human Tracking System Using Drone <i>R. Lingeswaran, G. Vanjinathan. M. Ajith, M.Vasantha Kumar B. Mary Amala Jenni, V. Venkatesan.</i>
NCAEST049	Robovac <i>D. Umamageshwaran, V.Vasanthan. V.Ajithkumar. R.Akash. B.Arun kumar, A.Samadhanapriya.</i>
NCAEST050	Smart Irrigation



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Paper ID	Article Title & Author Name
	<i>J. Mohan, U.Mangaleshwar, A. Archana</i>
NCAEST051	Smart Street Light Automation <i>N. Viswanath, P. Sathish Kumar</i>
NCAEST052	VR Dream World <i>V. Pavithra, V. Jeevitha, K. Pratheeba, A. Archana</i>
NCAEST053	Smart Farming <i>Kavi Priya.K, Monika.M, Navitha.R, Mary Amala Jenni B</i>
NCAEST054	Smart Ambulance and Emergency Medicine <i>Cherishma.R, Sujitha.K, Sasireka.M, Lakshmi.S</i>
NCAEST055	Modified Dipole Antenna For 5G IoT Applications <i>Dr. M. Phemina Selvi, B Abishek, K. Bhuvaneshkumar P. Subalakshmi</i>
NCAEST056	Landslide Monitoring and Notification Using IoT <i>Govindarajan S, Kishore Kumar Parthasarathy, Gokul Nath S Tharaniraj S</i>
NCAEST057	Design of Real Time Vision System Based on Mixed Reality (MR) <i>Mrs. T. Karthiga, N. Aashika, E. Kanimozhi, V. Kanimozhi</i>
NCAEST058	Speed Management and Collision Prevention Using AI and IoT <i>Mr. S. M. Muthupandi, Prabu JBharathikrishnan C, Karthikeyan K</i>
NCAEST059	Design and Development of Writing Robot Using Speech Processing <i>Arulmozhi R, Anjali T, Bhakkiyalakshmi R, Poongodi B</i>
NCAEST060	Implementation of 64- Bit Parallel Prefix Adder Using Verilog for MAC Unit Applications <i>S. Subathradevi E. Abarna, K. Alagupavithra, C. Gopikrishnan</i>
NCAEST061	FPGA Implementation of High-Performance BCD Adder using three input XOR gate and majority gate <i>S. Subathradevi, V. Vishnuvardhan, Sharmila S. Keerthivasan, G. Vikram Balaji</i>
NCAEST062	Design and Development Of An Emergency Communication System For Hilly And Forest Region Using Wusn Technology <i>Dr. A. Uma Maheswari, P. M. Bharath, S. Keerthika</i>
Department of Mechanical Engineering	
NCAEST063	Investigation of Material Removal Rate and Surface Roughness during Electrical Discharge Machining of WS₂/Cu Composite <i>C. Senthilkumar, G. Jayapranesh</i>
NCAEST064	Design and Analysis of Gravity Based Energy Storage Systems <i>Mr. M. Prabu, G. Ganapathy, M. Arul Jothi, T. Muthu, N. India Kathir</i>
NCAEST065	Tribological performance of WC/Ni coating over a 7075 aluminium alloy by EDC process <i>Sittaramane. A, Senthilkumar. C, Balamurugan. R, Rajasekar. MP</i>
NCAEST066	Assessment of the Effects of Engine Parameters on Performance and Emissions of Diesel Engine Operating With Biodiesel Blend <i>D. Mala, Thiena Dhayalan & Nithishkumar</i>
NCAEST067	GRA PCA based optimization of process parameters in turning of AZ91D Magnesium Alloy <i>P. Umamaheswarrao, D. Vijay Praveen, S. Krugon, Y. Narendra Babu</i>
NCAEST068	Smart Street Light and Fault Location Monitoring Through the Cloud over IOT



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Paper ID	Article Title & Author Name
	<i>Rajmohan K and Selvamani JS</i>
NCAEST069	Evaluate the Mechanical Properties of Aluminium and Silicon Composite Material Using Analysis Tool <i>Mr.K.Thiruvassagamoorthy, A.Aravinth, R.Barathan, P.Harishbabu, K. Kathir Selvan.</i>
NCAEST070	Investigation of process parameters on deposition rate and surface roughness by electro discharge coating AA7075 aluminium alloy <i>S.Aravindhana, D.Naresh, K.Vikram, L.Anbumani and M.Sivamanikandan</i>
NCAEST071	Tribological Behaviour of WS₂/Cu Coated AA7075 by electrical discharge coating Process <i>S.Gugan, S.Mohananaraj, K.Muthukumar, U.Praveen raj and Mr.K.Shanmuga Elango</i>
NCAEST072	Performance Enhancement Study for Single Slope Solar Desalination Plant <i>Mr. K. Shanmuga Elango, G. Premkumar, R. Desigan.</i>
NCAEST073	Structural and Vibrational Analysis of Connecting Rod by Various Materials <i>R.Sasikumar, Mr.S.Gurudevan, K.Sarathi, T.Thivan, and J.Thirunavukarasan</i>
NCAEST074	Optimization of machining parameters on SS304 material using orthogonal array method <i>Mr. K.Sathish, Ms. P.Jayapradha, Mr.S.Raja, Mr.R.Balaji and Mr. K.Saravanan</i>
NCAEST075	Analysis of Mechanical Properties of TiC Reinforced Aluminium Alloy Composites <i>Mr. P. Murugan, Mr.R.Jayakumar, S. Akash, P. Manibarathi</i>
NCAEST076	Investigation on Performance of Hybrid Natural Fibers Reinforced Polymers <i>Mr.P.Murugan, Mr. N.Nagaraj Mr. S. Dhinesh Mr.S.Prashanth and Mr. J. Alwin Brunix</i>
NCAEST077	Structural Analysis of Car Crash Using Ansys <i>R.Jayakumar, R.Raghul, S.Santhosh and S.Sarathi</i>
Department of Science & Humanities	
NCAEST078	Synthesis and Optical Characterization of Barium Titanate (BaTiO₃) Nanoparticles by Solid State Method <i>R. Rajalakshmi¹, S. Chandra*</i>
NCAEST079	Comparative Study on Effect of Silver Doped Nickel, Lithium and Potassium Ferrites on the Removal of Pollutants from Industrial Water Waste <i>Rajikha R¹, Analisa S¹, Gowri Shanmugapriya G¹, Umamageshwari S¹, Sathana V₁*</i>
NCAEST080	Fiber Optic Ethanol Sensing Properties of ZnO-CeO₂ Heterostructure Nanocomposites <i>Rakesh Jawaher K¹, Paramasivam K²</i>
NCAEST081	Investigations on Crystal Growth Characterization of an NLO Organic Crystals of Hydrazide Derivatives Crystals <i>Priyadharshni B¹, Balaji J*</i>
NCAEST082	Green Synthesis, Characterization and Antibacterial Activity of Silver Nanoparticles Using Mukia Scabrella Leaf Extract <i>Dr. J. Venugopal</i>
NCAEST083	Investigations on Growth and Optical properties of potassium Boro-succinate



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Paper ID	Article Title & Author Name
	(KBS) single crystals <i>Santhosh Kumar M¹, Baranidharan P¹, Deebaeswar M¹, Adhisakthi V¹, Rackesh Jawaher K^{1*}</i>
NCAEST084	Structural and Optical Properties of CeO₂ nanoparticles Adorned with Quantum Dots <i>Bhuvaneshwari M G¹, Abinayaa R¹, Siva Priya¹, Bavya B¹, Rackesh Jawaher K[*]</i>
NCAEST085	Synthesis and Characterization of ZnO/CdO Composite Nanostructures via Chemical Precipitation Method. <i>Sankari M¹, Praveena A¹, Kalki J¹, Karthiha C¹, Rackesh Jawaher K[*]</i>
NCAEST086	Organic-Inorganic hybrids Based on Phenanthrene-Functionalized Gold Nanoparticles for OLEDs <i>Abirama Sundari G¹, Ramya S²</i>
NCAEST087	Physico-Chemical Parameter Analysis of Ground Water from Cuddalore Town, Tamil Nadu, India <i>R. Archana¹, K. Kaviya¹, B. Arthi¹, S. Suvetha¹, A. Dhandapani^{2*}</i>
NCAEST088	A Novel Imidazolium Supported Palladium-Chloroglycine Complex-Sonogashira Coupling Reaction <i>Dr. G. Abiramasundari</i>
NCAEST089	Zero-Emission Vehicle Adoption Towards Sustainable Development <i>Muthazhagan N¹, Adhimani A¹, Aravind A¹, Yuvaraj B¹, Rackesh Jawaher K[*]</i>
NCAEST090	Green Chemistry-Current and Future Issues <i>Abdul Wahab A¹, Giridharan R¹, Prathap M¹, Venkatesaperumal V¹, Ramya S[*]</i>
NCAEST091	PEG – Assisted Synthesis of ZnO-CdO Nanocomposites by Chemical Precipitation Method. <i>Dharani J¹, Anu Priya R¹, Arunthathiray M¹, Shrawanika R¹, Ramya S[*]</i>
NCAEST092	Monitoring and Controlling Water Parameters Based on WSNs <i>Kamalinisha S NM¹, Jayasri B¹, Sivaranjani K¹, Sriranjani K¹, Ramya S[*]</i>
NCAEST093	IoT Based Nursing Activities Monitoring And Control system <i>Varthika S¹, Bairavi VI, Divya R1, Sweety Porcia VI, Ramya S[*]</i>
NCAEST094	Synthesis and Characterization of CuO/ZnO Composite Nanostructures via Chemical Precipitation Method. <i>Grayson Raj B¹, Antony Johnson Raj A¹, Ragul E¹, Rackesh Jawaher K[*]</i>



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7th National Conference Report

Objective:

The Seventh National Conference on Advancements in Engineering, Science, and Technology, held on May 2, 2024, aimed to provide a platform for researchers, scholars, and experts to exchange ideas, present their latest findings, and discuss evolving trends in the fields of engineering, science, and technology. The conference sought to foster collaboration, inspire innovation, and facilitate networking among participants from academia, industry, and research institutions. Through paper presentations, discussions aimed to contribute to the advancement of knowledge and promote interdisciplinary research in key areas of technological development.

Conference Themes:

Computer Science

1. Artificial Intelligence and Machine Learning
2. Cyber Security
3. Cloud Computing
4. Big Data Analytics
5. Internet of Things (IOT)
6. Natural Language Processing (NLP)
7. Block Chain Technology

Electrical

1. Smart Grid and Microgrid Systems
2. Renewable Energy systems
3. Emerging trends in Power system
4. Power Electronics controller
5. E-vehicle Charging design
6. Wireless charger for E-vehicles

Electronics & Communication

1. 5G Technology and Beyond
2. Green Electronics
3. Biomedical image and Signal Processing
4. Robotics and Automation



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5. Antenna and advanced VLSI design
6. Internet of Things (IOT).
7. Cognitive radio and networks
8. Ultra-wide band communication

Mechanical

1. Green Manufacturing
2. Computational Fluid Dynamics
3. Alternative Fuels
4. Simulations of structure and component
5. New Product Development product

Engineering Science

1. Recent trends in applied mathematics
2. English language and globalisation
3. Environment and green chemistry
4. Emerging physics in nano science and nano technology

Event Highlights:

The conference commenced with the welcome address and Chief guest introduction by the principal Dr. R. Arokiadass, who highlighted the significance of the conference in encouragement relationship and knowledge exchange among researchers, scholars, and practitioners.

Our honourable Secretary Rev. Sr. Dr. T. Nirmala, a distinguished authority in the domain, presided over the conference, lending her expertise and leadership to the event. Her presence added a sense of significance and skill to the proceedings, ensuring a smooth and productive gathering.

The conference started with the gracious inaugural address delivered by Dr. K. Raghukandan., Former Dean and Faculty of Engineering and Technology a prominent character. His attentive proceedings set the quality for the day's proceedings, highlighting the importance of collaboration and innovation in driving progress in engineering, science, and technology.

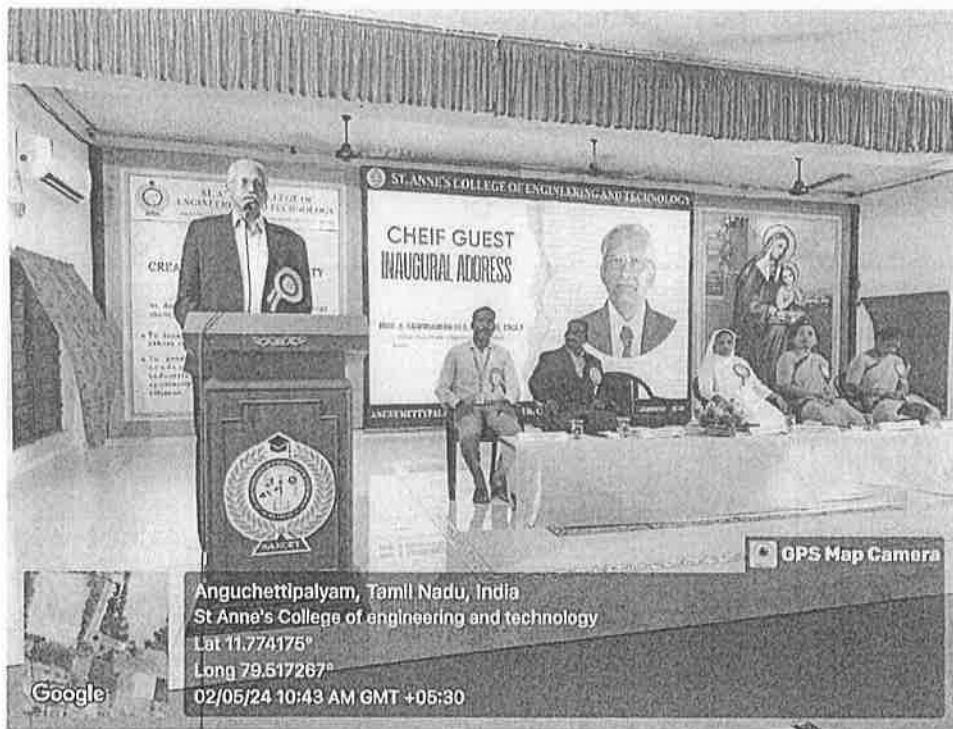


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The conference concluded with the Vote of thanks by Dr. Sr. S. Anita., Dean of Excellence.

The core of the conference comprised paper presentations, where researchers and scholars from various institutions showcased their latest research findings and technological innovations. The presentations covered a wide range of topics, including but not limited to mechanical engineering, electronics and communication, and computer science.

The presentations were evaluated by a distinguished panel of jury members, including:

Dr. C. Senthil Kumar, Assistant Professor, Mechanical Department, University College of Engineering, Panruti.

Dr. A. Uma Maheswari, Assistant Professor, Department of Electronics and Communication Engineering, University College of Engineering, Panruti.

Dr. C. Sivanesh, Assistant Professor, CSE Department, University College of Engineering, Panruti.

Additionally, the internal jury's Dr. Sr. S. Anita, Dean of Excellence, Department of ECE, Mr. K. Sriram, Assistant Professor & HOD, Department of EEE and Mrs. S. Ramya, Assistant Professor & HOD, Department of S&H and Sr. A. Punitha Jilt Dean/Vice-principal, Department of CSE contributed their expertise to ensure a fair and tough evaluation process, maintaining the academic integrity of the conference.



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Selected papers will be recommended to the Scopus Indexed Journals

1. International Journal of Electrical and Computer Engineering (IJECE)
2. International Journal of Electrical and Electronics Engineering (IJEET)
3. Journal of Electrical Systems (JES)

The valedictory function was held on afternoon session, a welcome address was given by beloved Sr. A. Punitha Jilt Dean/Vice-principal, and Dr. A. Uma Maheswari delivered the valedictory address, reflecting on the key takeaways and contributions of the conference. Her words of encouragement and appreciation inspired the attendees, supporting their commitment to advancing knowledge and innovation in their respective fields.

The valedictory function was presided over by the Secretary, who expressed gratitude to all the participants and stakeholders for their valuable contributions to the success of the conference. In a gesture of appreciation, the principal Dr. R. Arokiadass felicitated the conference, acknowledging the collective efforts that made the event possible. Nearly 300 participants presented 120 plus papers in the above-mentioned themes. Based on jury's evaluation one paper from each department was awarded with best paper award. All the participants are received the participation certificates. The conference was concluded with a vote of thanks by Mr. K. Ramesh, Assistant Professor & HOD, CSE Department.

Conclusion:

The Seventh National Conference on Advancements in Engineering, Science, and Technology provided an active platform for knowledgeable exchange, collaboration, and inspiration. By bringing together researchers, scholars, and practitioners from diverse backgrounds, the conference facilitated the sharing of ideas, encouragement innovation and driving progress in key areas of technological development. The event served as a testimony to the collective efforts of the academic community in advancing knowledge and contributing to the betterment of society.



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பண்ருட்டி செயின்ட் ஆன்ஸ் பொறியியல் கல்லூரியில் கருத்தரங்கு நடந்தது. பண்ருட்டி அங்குசெட்டிப்பாளையம் செயின்ட் ஆன்ஸ் பொறியியல் கல்லூரியில் அறிவியல் மற்றும் தொழில்நுட்பத்தில் முன்னேற்றம் என்ற தலைப்பில் 7 வது கருத்தரங்கு நடந்தது. நிகழ்ச்சிக்கு கல்லூரி செயலர் டாக்டர். நிர்மலா தலைமை தாங்கினார். கல்லூரி முதல்வர் டாக்டர் ஆர். ஆரோக்யதாஸ் வரவேற்றார். அண்ணாமலை பல்கலைக்கழக விரிவுரையாளர் டாக்டர் கே. ரகுசுந்தன் சிறப்பு விருந்தினராக கலந்து கொண்டு மாணவர்களிடம் கருத்துரை வழங்கினார். நிகழ்ச்சியில் 300 மாணவ, மாணவிகள் கலந்து கொண்டு தங்களது பொறியியல் சார்ந்த கண்டுபிடிப்புகளை பற்றி விளக்க மளித்தனர். துறைவாரியாக முதலிடம் பிடித்த மாணவர்களுக்கு பரிசுகள் வழங்கப்பட்டது. கலந்து கொண்ட அனைத்து மாணவர்களுக்கும் சான்றிதழ் வழங்கினர்.

Fig: News paper clip

K. Saravanan
08/05/2024
Convener

Prof K. Saravanan

R. Arukiadass
8/5/24
Principal

Dr. R. AROKIADASS, M.E., Ph.D.,
Principal,
St. Anne's College of Engineering & Technology,
ANGUCHETTPALAYAM,
Struvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

Organic-Inorganic hybrids Based on Phenanthrene-Functionalized Gold Nanoparticles for OLEDs

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Abstract

The electroluminescence intensity of the phenanthrene-functionalized gold nanoparticles, PMPT-Au nanoparticles/CPB: Ir(PIA)₂ (acac) film, was increased by 4.9 times compared with control device, CPB: Ir(PIA)₂ (acac) due to coupling between the excitons of emissive layer and localized surface plasmonic resonance of PMPT-Au NPs. The maximum luminous efficiencies of devices II to IV with PMPT-Au NPs were 39.2 Cd A⁻¹ (11.8V), 40.1 Cd A⁻¹ (10.5V), and 43.1 Cd A⁻¹ (9.0V), respectively. The increment of current efficiency with PMPT-Au NP coated devices was strongly related to the energy transfer between the radiated light generated from CPB: Ir(PIA)₂ (acac) emissive layer and localized surface plasmonic resonance excited by PMPT-Au NP layer.

Keywords: Exciton-SP coupling, current efficiency, LSPR enhancement, luminous efficiency, PMPT-Au NPs/CPB: Ir(PIA)₂(acac) film

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Certificate of Participation

This certificate is proudly presented to

Mrs. Ramya S

DEPARTMENT OF SCIENCE & HUMANITIES

ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

for presentation and publication of his/her paper titled

**Organic-Inorganic hybrids Based on Phenanthrene-
Functionalized Gold Nanoparticles for OLEDs**

in the 7th National Conference on

Advancements in Engineering, Science and Technology

(NCAEST'24)

organized by

St. Anne's College of Engineering and Technology

Anguchettypalayam, Panruti

on 02.05.2024.

Prof. K. Saravanan
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Secretary