



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

**CASE STUDY:
DECENTRALIZATION OF
AUTHORITY**



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CIRCULAR

2021-2022

CIR. No.: SACET/PRI/CIR/31

Date: 16.02.2022

It is informed to all the staff members that 6th National Conference on Research and Development in Science, Engineering and Technology is planned to conduct in the Month of April/May 2022. In this regard various committees are formed to speed up the work with meticulous planning. Mrs. D. Pauline Freeda, HOD/CSE is the coordinator for this Conference and all the staff members are requested to give their whole hearted co-operation.

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3. Mr. A. Arockia Lourdu Raj, Lab Asst./EEE

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NCRDSET 2022

BUDGET

Sl. No.	Item	Quantity	Amount (Rs.)
1	Invitation (20), Pamphlet (75), Banner (2), Certificate (300) Printing		6000.00
2	Email + SMS		2000.00
3	Stage Decoration		2000.00
4	Reception		200.00
5	Lunch	300 x 100	30000.00
6	Refreshment (Both session)	300 x 2	12000.00
7	Registration Kit	250 x 150	37500.00
8	CG Remuneration + Transport		15000.00
9	CG Momento & Shawl		2000.00
10	Jury Remuneration	5	12500.00
11	Jury Momento & Shawl	5	2500.00
12	Proceedings Printing		15000.00
13	Cash award		15000.00
	Total		1,51,700.00

R. Aradiass
18/2/22

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

3.2.1

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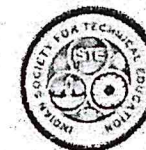
Organizes

**The 6th National Conference on
Research and Development in
Science, Engineering and
Technology**

on 27th May, 2022

In association with

Indian Society for Technical Education



Address for Communication

Co-convener:

NCROSE-22

Dr. Pauline Freeda, Engineering & Technology

Department of CSE

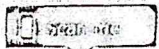
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2022

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About the Congregation of Sister's of St. Anne

The Congregation of the Sisters of St. Anne, Tiruchirappalli, 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. To uplift the rural youth, through education, St. Anne's CET is established by the Congregation in the year 2009.

About the Institution

Our College aims at giving hope and dignity through quality education by which character is formed, strength of mind is increased, intellect is expanded and confidence is gained to stand on one's feet. We train the youth to see the good in every human being and to take the best out of each individual, to inculcate the sense of values in every student and to help every person to promote justice, peace and love in society. The College functions with the Motto: To build a Holistic Society.

St. Anne's College of Engineering and Technology, approved by AICTE, New Delhi and affiliated to Anna University, Chennai, is situated at Anguchettypalayam, near Panruti. College provides ample opportunities for our students for both training and employment. Our students can reap the benefits from this Institute with proper coordination.

About the Conference

Conferences pave way to bring together people with common interests and discuss issues and ideas related to various topics. Sixth National Conference on Research Development, Science and Technology 2022 (NCRDSET'22) 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. AI and Machine Learning
2. Big Data Analytics
3. Cloud and Green Computing
4. Network and Cyber Security
5. IoT and Networking
6. Virtual Reality

Electrical

1. Smart Grid and Microgrid Systems
2. Renewable Energy systems
3. Special Electrical Machines
4. Emerging Trends in Power System
5. Power Electronics Controllers.
6. Energy Storage and Control Techniques

Electronics & Communication

1. Antennas and Microwave devices
2. Quantum Communication and Computing
3. Image, Audio & Video Processing, Pattern Recognition
4. Electronic devices, VLSI, Embedded System and its security
5. Bio-medical Engineering application

Mechanical

1. Advance Trends in Engineering Design
2. Recent Methods in Manufacturing
3. Emerging Trends in Thermal Engineering
4. Computational Field Dynamics
5. Design Tool and Cutting Materials
6. Composite Material
7. Alternative Fuels

Engineering Science

1. Materials for Energy and Environment
2. Smart Materials and Crystalline Materials
3. Material Science and Chemistry
4. Environmental Science
5. Mathematical Analysis and Applications
6. Recent Advancements in Applied Mathematics
7. English Language Teaching Methodology

Important Dates

- Submission of full paper : 15.05.2022
- Intimation of acceptance : 21.05.2022
- Registration : 23.05.2022

Paper Submission

- Authors are invited to submit their full length paper in the prescribed format through <http://stannescet.ac.in/NCRDSET22>

- All papers submitted to the conference will be peer reviewed and evaluated for its originality, technical content and relevance to the conference theme by the members of review committee and acceptance will be intimated to the author's mail.

- All the accepted papers will be published in the conference proceedings with ISBN Number.

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

Cash prize will be awarded to the best paper from each department.

Registration Fee

- UG/PG Students & Research Scholars : Rs.500
- Faculty & Industry Participants : Rs.750

Payment Modes

National Electronic Funds Transfer (NEFT)

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and Technology

Account Branch : Panruti

IFSC Code : FDRL0001968

or

Online payment gateway available on conference website.

Website url : www.stannescet.ac.in/NCRDSET22





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on 27th May, 2022

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ACADEMIC YEAR 2021-22

S.NO	NAME OF THE FACULTY	TITLE OF THE PAPER	NAME OF THE CONFERENCE
1.	Mrs.Z.Asmathunnisa	User Choice based Alpha numerical random password generator for securing the data assets	National conference on Research and Development in Science, Engineering & Technology, 2022
2.	Mr.P.Saravanabhava	Smart ration card using face recognition	National conference on Research and Development in Science, Engineering & Technology, 2022
3.	Mrs. Britta Devi	Online Product price and comparison using web mining and machine learning	National conference on Research and Development in Science, Engineering & Technology, 2022
4.	Mr. S. Manavalan	Heart attack prediction for stroke patients using machine learning	National conference on Research and Development in Science, Engineering & Technology, 2022
5.	Mrs. P.nivetha	Cyber bullying detection on social networks using neural networks	National conference on Research and Development in Science, Engineering & Technology, 2022
6.	E.Indhuma	DL-CNN based hardware state enable using hand gesture	National conference on Research and Development in Science, Engineering & Technology, 2022
7.	E.Indhuma	Blind assistance system with voice enabled and realtime object detection	National conference on Research and Development in Science, Engineering & Technology, 2022
8.	Z.Asmathunnisa	Video Compression	National conference on Research and Development in Science, Engineering & Technology, 2022
9.	Dr.S.Anita	Microfluidic Syringe Pump	National conference on Research and Development in Science, Engineering & Technology, 2022
10.	Dr.S.Anita, Mrs.D.Umamaheswari	Cascade Attentive Refinenet For Blood Vessels Segmentation Of Diabetic Retinopathy	National conference on Research and Development in Science, Engineering & Technology, 2022
11.	Mr.R.Radhakrishnan	Design and Analysis of Multi-Patient Monitoring System Using Cloud Computing	National conference on Research and Development in Science, Engineering & Technology, 2022
12.	Mr.R.Radhakrishnan, Mr.S.Balabasker	IoT- Based intelligent aquaculture monitoring system	National conference on Research and Development in Science,



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		Green compact electrode	Engineering & Technology, 2022
26.	Mr. Eugin Marin Raj	Electrical Motor Topologies for Aircraft Propulsion	National conference on Research and Development in Science, Engineering & Technology, 2022
27.	Mr. A. Richard Pravin	Optimal Placement and Sizing of Distributed Generator Based on Multi objective Particle Swarm Optimization	National conference on Research and Development in Science, Engineering & Technology, 2022
28.	Mr. K. Sriram	Cost Saving on Micro Grid Operation using Grey Wolf Optimization Algorithm	National conference on Research and Development in Science, Engineering & Technology, 2022
29.	Sr. Annai Theresa	A 129 level asymmetrical cascaded H bridge multi level inverter with reduced switches and low THD	National conference on Research and Development in Science, Engineering & Technology, 2022
30.	Mr. J. Ramesh	Monitoring the Microgrid using IoT	National conference on Research and Development in Science, Engineering & Technology, 2022
31.	Mr. V. Balaji	A Novel Circuit for Battery Charging and Motor Control of Electric Vehicle	National conference on Research and Development in Science, Engineering & Technology, 2022
32.	Mr. A. Sundara Pandiyan	Design of Efficient Electric Motorcycle Using Brushless DC Motor	National conference on Research and Development in Science, Engineering & Technology, 2022
33.	Ms. Premalatha	Power Loss Reduction and Voltage Profile Improvement using Optimal Placement of FACTS Devices	National conference on Research and Development in Science, Engineering & Technology, 2022
34.	Mrs. A. Arul Martinal	Wireless Power Transmission System	National conference on Research and Development in Science, Engineering & Technology, 2022
35.	G. Abirami Sundari, S. Ramya	Enhanced internal quantum efficiency of organic light emitting diodes : a synergistic effect	National conference on Research and Development in Science, Engineering & Technology, 2022

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REPORT ON NCRDSET'22

The 6th National Conference on Research and Development in Science, Engineering and Technology (NCRDSET '22) was organised at St. Anne's College of Engineering and Technology on 27th May, 2022. The objective of this conference is to provide opportunity for the participants to interact and exchange ideas, experience and expertise in the current trend and strategies. Technical papers are invited from a wide range of topics like Current trends in Manufacturing and Thermal Engineering, Advance Trends in Intelligent Materials, Recent Methods in Manufacturing, AI and Machine Learning, Cyber Security, IoT and Networking, Quantum Communication, Bio medical Engineering application, Renewable Energy systems, Special electrical machines and Recent advancements in Applied Mathematics. The number of papers accepted for presentation in the Conference was 76 and 190 participants presented in the conference and received the certificates.

The inaugural of the conference was felicitated by the chief guest, Dr. Selvam, Director, National power Training Institute, Neyveli, the keynote Speaker Dr. S.P. Mangaiyarkarai, Assistant Professor Senior Grade, University College of Engineering Panruti, in the presence of Rev. Sr. Dr. Y. Yesu Thangam, Secretary and Dr. R. Arokiadass, Principal, and Heads of various department of our college. The Chief Guest delivered his address and insisted about the importance of of engineering and technology. The proceedings of the conference was released by our Secretary and delivered the presidential address. The keynote Speaker Dr. S. P. Magaiyarkarasi, exposed the importance of Science, Engineering and Technology to all participants.



Conference Proceedings

All accepted papers are published in the conference proceedings with an ISBN number and the best paper from each department bagged cash award with a certificate. A soft copy of proceedings was sent to all registered participants through mail. The following papers are selected as best paper from each department.

Department	Title	Authors
CSE	Hybrid key splitting scheme for data sharing and prevention of cyber security	S. T. Preethi, D. Sowmiya S. Subalakshmi, A. Nandhini
ECE	Design and fabrication of optimized Railgate control and obstacle detection using wireless protocol	Jeevanandham, V. Manikandan, Mohamed Akshith, M. Thivagar
EEE	A novel circuit for battery charging and motor control of electric vehicle	Mr. Balaji, Mr. V. Vijay, Mr. K. Bhuvaneshwaran, Mr. M. Muralikrishnan
MECH	Optimization of machining parameter on ss3161 material using orthogonal array method	Dr. R. Arokiadass, S. Daniel, R. Devendiran, T. Anbazhagan, S. Fralick
S&H	Analysis of a MAP/PH/1 queueing model with differentiated vacation, vacation interruption under N-policy, optional service, breakdown and repair , setup and discouragement of customers	Ms. Archana, Dr. G. Iyappan



Paper Presentation

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6th National Conference on Research and Development in Science, Engineering and Technology **NCRDSET '22**

Certificate of Appreciation

This is to certify that Dr. /Prof. /Mr. /Ms. Radhakrishnan . P.
of St. Anne's College of Engineering and Technology
presented a paper titled IoT - Based intelligent aqua-culture
monitoring system for fish farming
in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
SCIENCE, ENGINEERING AND TECHNOLOGY (NCRDSET '22)", at St. Anne's
College of Engineering and Technology, Panruti on 27th May, 2022.


Convener

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Principal

(Dr. R. Arokiadass)


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Science, Engineering and Technology

NCRDSET '22

Certificate of Appreciation

This is to certify that Dr. /Prof. /Mr. /Ms. Balabasker. S
of St. Anne's College of Engineering & Technology
presented a paper titled IoT - Based Intelligent Aquaculture
monitoring System for fish farming.
in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
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Certificate of Appreciation

This is to certify that Dr. /Prof. /Mr. /Ms. Sahini Priya . M
of St. Anne's college of Engineering and Technology
presented a paper titled High Speed gate level Synchronous
full adder Design

in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
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Certificate of Appreciation

This is to certify that **Dr. /Prof. /Mr. /Ms. Azun Kumar .B**
of **St. Anne's college of Engineering and Technology**
presented a paper titled **High speed gate level synchronous**
Full adder designs.

in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
SCIENCE, ENGINEERING AND TECHNOLOGY (NCRDSET '22)", at St. Anne's
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Certificate of Appreciation

This is to certify that Dr. /Prof. /Mr. /Ms. Venkatesan V
of St. Anne's College of Engineering and Technology
presented a paper titled Design and Implementation of Micro
controller based vehicular smart Helmet for safe journey
using sensors
in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
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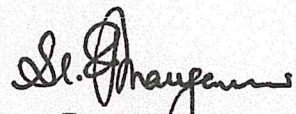
This is to certify that ~~Dr.~~ /Prof. /~~Mr.~~ /Ms. Arun Kumar . B
of St. Anne's College of Engineering & Technology
presented a paper titled Design & Implementation of Micro-
controller Based Vehicular Smart Helmet for safe Journey
Using sensors.
in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
SCIENCE, ENGINEERING AND TECHNOLOGY (NCRDSET '22)", at St. Anne's
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Certificate of Appreciation

This is to certify that ~~Dr.~~ /Prof. /Mr. /Ms. Durai raj. S
of St. Anne's College of Engineering & Technology
presented a paper titled Design & Implementation of Microcontroller
Based Vehicular Smart Helmet for Safe Journey Using Sensors.
in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
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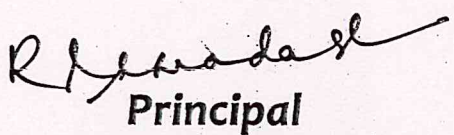
NCRDSET '22

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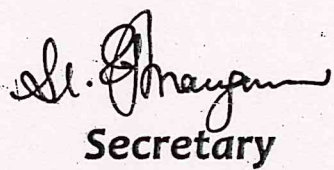
This is to certify that Dr. /Prof. /Mr. /Ms..... V. BALAJI
of ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
presented a paper titled A NOVEL CIRCUIT FOR BATTERY CHARGING
AND MOTOR CONTROL OF ELECTRIC VEHICLE
in the "NATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN
SCIENCE, ENGINEERING AND TECHNOLOGY (NCRDSET '22)", at St. Anne's
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