



# ST. ANNE'S

## COLLEGE OF ENGINEERING AND TECHNOLOGY



**VOLUME-VIII ISSUE-I**

**NEWS EPISTLE**

**JAN - JUNE 2021**



### **EDITOR'S MESSAGE**

It is indeed a great joy to record all the activities of our esteemed institution, St. Anne's College of Engineering and Technology, in this News Epistle. It is by the loving care and guidance of the Almighty God, all the Faculty and Students could achieve in several curricular, co-curricular and extra-curricular activities and let us be grateful to the Lord always. This News Epistle highlights the Patents received by our Faculty, International conference held in our College and the Ph.D. viva-voce which took place in our College along with the regular events. The News Epistle Team is thankful to all the Staff for their active involvement in all the activities and for providing the required contribution to the News Epistle. By keeping the Motto of our College, TO BUILD A HOLISTIC SOCIETY, let us strive forward to enhance our achievement.

Happy Reading...!!!

**D. Pauline Freeda**  
**Co-Ordinator**  
**News Epistle Team**

**YOUR COLLEGE!**

**YOUR FUTURE!!**

**BUILD YOUR CAREER!!!**

## INTRODUCTION

The even semester for the academic year 2020-2021 commenced on 19<sup>th</sup> February 2021 for II, III and IV year students after the previous semester exams. During this pandemic situation, the regular classes were started and students and staff met each other after a long gap. It refreshed our soul. Each department has organized various events for students to enlighten their knowledge. This newsletter focusses on the achievements of all the faculty and students of St. Anne's College of Engineering and Technology on various aspects like Placement & Training, Research & Development, Paper Presentations, Webinars, Faculty Development programmes, NSS Activities and other notable achievements. Under research and development 4 patents were received, 13 papers were published in reputed international journals and 31 papers were presented in Conferences. The entire teaching fraternity of St. Anne's CET showcased their technical knowledge by contributing and publishing 35 papers in ICRDSET'21. Our faculty participated in 16 webinars, 20 FDP's, 4 short term training programmes, 3 training programmes and 7 workshops which were conducted in top institutions across the country. Students of our college published 3 papers in reputed international journals and published 10 papers in IRCDSSET'21. St. Anne's CET organized 11 department events and 8 overall events for the entire institution. The training and placement cell have organized 5 campus interviews and around 70 students were placed in core companies. The NSS team has organized 4 outreach programmes to the local community. This sums up the entire activities of St. Anne's College of Engineering and Technology over the past 6 months.



## RESEARCH AND DEVELOPMENT

### Patent

- Mr. A. Richard Pravin, Associate Professor (ASP), Department of Electrical and Electronics Engineering (EEE) published an Innovation Patent on “IOT Based Cost Effective Solar Powered Water Cooler System” in IP India with Patent number: 202111013094 on 25<sup>th</sup> March 2021.
- Sr. Annai Theresa, Assistant Professor (AP)/EEE published an Innovation Patent on “Smart Public Transport Disinfection and Sterilization System” in IP Australia with Patent number: 2021101212 on 28<sup>th</sup> March 2021.
- Mr. A. Richard Pravin, ASP/EEE and Mr. V. C. Eugin Martin Raj, HOD/EEE published an Innovation Patent on “Sensing and forecasting crowd distribution in smart cities using IOT” in IP India with Patent number: 202111019302 on 30<sup>th</sup> April 2021.
- Mr. V. C. Eugin Martin Raj, HOD/EEE published an Innovation Patent on “Human Activity Recognition using Spiking Neural Network” in IP India with Patent number: 202141021959 on 2<sup>nd</sup> July 2021.

### Paper Publications

Sl. No.	Faculty Name	Title	Journal Name	Date
1.	Dr. A. Azhagappan, ASP, Department of Science and Humanities (S&H)	Impatient Behavior in an M/E <sub>k</sub> /1 Queue with Single Vacation	Journal of Statistics and Mathematical Engineering	April 2021
		Single and Bulk Service Queueing Model with Second Optional Service Multiple Vacation Closedown and Balking	Journal of Statistics and Mathematical Engineering	April 2021
		Analysis of a Batch arrival Bulk Service Queue with Two Choice of Service Multiple Vacations Restricted Admission and Closedown Time	Journal of Applied Mathematics and Statistical Analysis	April 2021
		Analysis of an M/E <sub>k</sub> /1 queue with N-policy	Journal of Applied Mathematics and Statistical Analysis	April 2021
		Transient behaviour of a Markovian vacation queue with re-service balking control of admission closedown and setup times	International Journal of Mathematics in Operational Research (Scopus)	May 2021
2.	Dr. R. Arokiadass, Principal	Modelling and Analysis of Tool life on CNC Turning of Aluminium alloy 6063 using Tungsten Carbide Tools: Application of Taguchi Technique	International Journal of Modern Trends in Science and Technology	Feb 2021
3.	Dr. Sr. S. Anita, HOD, Department of Electronics and Communication Engineering (ECE) & Dr. R. Arokiadass, Principal	Mathematical model for early stage identification of Parkinson's disease using neurotransmitter: GABA	International Journal of Information Technology	June 2021

Sl. No.	Faculty Name	Title	Journal Name	Date
4.	Dr. Sr. S. Anita, HOD/ECE	Improved Classification Accuracy for Diagnosing the Early Stage of Parkinson's Disease Using Alpha Stable Distribution	IETE Journal of Research	April 2021
5.	Mrs. E. Indhuma, AP, Department of Computer Science and Engineering (CSE)	Music Information Retrieval Utilizing Large Scale Data	International Research Journal of Modernization in Engineering Technology	March 2021
		An Exploration of Year Prediction Using Large Scale Data	International Journal for Science and Advance Research in Technology	May 2021
6.	Mr. P. Murugan, AP/Mechanical Engineering (MECH)	Industrial and Small - Scale Biomass Dryers	Journal of Tech. Science Press, Energy Engineering	March 2021
7.	Mr. R. Radha Krishnan, AP/ECE	Smart Saline Monitoring Device using LoRa Technology	International Journal of All Research Education & Scientific Methods	March 2021
8.	Sr. Annai Theresa, AP/EEE	A Novel 31 Level Cascaded H- Bridge Inverter	IEEE Explore	April 2021

## Paper Presentation

Sl. No.	Faculty Name	Title	Conference	Institution	Date
1.	Sr. Annai Theresa, AP/EEE	A Novel 31 Level Cascaded H- Bridge Inverter	International Conference on Advance Computing and Innovative Technologies in Engineering	Galgotias College of Engg. & Tech., Greater Noida	4 <sup>th</sup> & 5 <sup>th</sup> March 2021
2.	Dr. A. Azhagappan, ASP/S&H	Analysis of an M/E <sub>k</sub> /1 queue with N-policy re-service and admission control	International Conference titled Recent Trends in Science, Humanities & Engineering	Seth Gyaniram Bansidhar Podar College, Nawalgarh	18 <sup>th</sup> June 2021
3.	Mr. K. Shanmuga Elango, ASP/MECH	Investigation of Electrical Discharge Coating of Aluminium Alloy using W <sub>s2</sub> /Cu Powder Metallurgy Electrode	National Conference on Recent Development in Automobile and Mechanical Engineering	Easwari Engineering College, Chennai	31 <sup>st</sup> March 2021



## International Conference (ICRDSET' 21)

Our College has organized an International Conference on Research and Development in Science, Engineering and Technology 2021 (ICRDSET'21) on 5<sup>th</sup> March, 2021. Technical papers were invited on domains like Image Processing, Big Data Analytics, Machine Learning, IoT, VLSI Design, Embedded Systems, Smart Grid and Microgrid Systems, Renewable Energy Systems, Computational Field Dynamics, Composite Material, Smart and Crystalline Materials, Nano Materials and Nano Structures. A total of 192 papers were received from all over the country on which 167 papers were selected and published in the Conference Proceedings. One best paper was selected from each department and they are sent for publication in the UGC & Scopus Indexed Journals for free of cost.

Our faculty and students presented papers in Conference and the details are given below:

Sl. No.	Name	Title
1.	Sr. Annai Theresa, AP/EEE	A Novel 31 Level Cascaded H- Bridge Inverter Analysis of A 21 Level Inverter with Reduced Switch Count
2.	Mr. S. Manavalan, ASP/CSE	Farmer Trade using Android Application Mobile Camera Based Asistiv Text and Product Label Reading using Android for Blind Persons
3.	Dr. Sr. S. Anita, HOD/ECE	Early Diagnosis of Parkinson's Disease using Convolutional Neural Network
4.	Mr. D. Pauline Freeda, ASP/CSE	A Measurement Analysis of Website Attackers using Onionbots
5.	Mr. A. Richard Pravin, ASP/EEE	Optimizing Combined Emission Economic Dispatch for Solar Integrated Power Systems
6.	D. Uma Maheswari, ASP/ECE	Automatic Detection for Diabetic Retinopathy Using Deep learning in Modified AlexNet CNN Architecture
7.	Mr. S. Rajarajan, AP/CSE	Attribute-Based Access Control with Data in Cloud Storage
8.	Mrs. Z. Asmathunnisa, AP/CSE	Integrity and Privacy Preserving of Data for Secure Cloud Storage using Third Party Auditor
9.	Ms. V. Britta Devi, AP/CSE	A Multitasking Agricultural Robot using Internet of Things and Raspberry Pi
10.	Mr. J. Ramesh, AP/EEE	Advanced Embedded Design Based Power System Maximum Demand Prediction and Controller for Efficient Power Management by Using Proteus
11.	Mr. V. Balaji, AP/EEE	Effect of DC Ripple and Commutation on the Line Harmonics of Current-Controlled AC-DC Converters
12.	Mr. K. Sriram, AP/EEE	Group Leader Optimization Algorithm Based Optimal Reconfiguration of Distribution Feeder for Loss Reduction
13.	Mr. A. Sundarapandiyam, AP/EEE	Optimal Design of Energy Saving for Single Phase Induction Motor
14.	Ms. M. Premalatha, AP/EEE	Minimization of Reactive power in Power System using Group Leader Optimization Algorithm
15.	Mrs. J. Arul Martinal, AP/EEE	Plant Growth Algorithm Based Load Forecasting of a Power System

Sl. No.	Name	Title
16.	Mr. R. Radha Krishnan, AP/ECE & Mr. S. Balabasker, ASP/ECE	Smart Irrigation Monitoring System Using Lora Technology
17.	Mr. B. Arun Kumar, AP/ECE, Mr. V. Venkatesan, AP/ECE & Mr. S. Durai Raj, AP/ECE	<ul style="list-style-type: none"> <li>Raspberry Pi Based Automatic Vehicle Speed Detection Warning and Control System</li> <li>Design and Implementation of Miniature U-slot Patch antenna for 5G Communication</li> <li>Energy-Efficient Adaptive Encoding for Off-Chip Communication</li> </ul>
18.	Mr. V. Venkatesan, AP/ECE Mr. S. Durai Raj, AP/ECE & Mr. B. Arun Kumar, AP/ECE	Energy-Efficient Adaptive Encoding for Off-Chip Communication
19.	Mr. S. Balabasker, ASP/ECE Mrs. D. Uma Maheswari, ASP/ECE & Mr. R. Radhakrishnan, AP/ECE	Smart Saline Monitoring Device using LoRa Technology
20.	Ms. M. Sahini Priya, AP/ECE, Mrs. B. Mary Amala Jenni, AP/ECE & Mrs. D. Uma Maheswari, ASP/ECE	Design of low power Magnitude Comparator Using GDI Technique
21.	Mrs. B. Mary Amala Jenni, AP/ECE, Mrs. D. Uma Maheswari, ASP/ECE & Ms. M. Sahini Priya, AP/ECE	Hybrid system design of FSO-tech and RF signals in spatial communication
22.	Mr. B. Arun Kumar, AP/ECE, Ms. J. Nisha & Ms. C. Sugapriya, IV year ECE	Driver Drowsiness Detection and Alert System
23.	Mr. R. Radha Krishnan, AP/ECE, Ms. M. Malini & Ms. D. Divya, IV year ECE	Intravenous Flow Monitoring System Using Lora Technology
24.	Mr. S. Durairaj, AP/ECE, Ms. M. Nandhini & Ms. S. Abitha, IV year ECE	Reconfigurable H-Shaped Dielectric Resonator Antenna
25.	Mr. V. Venketesan, AP/ECE, Mr. S. Anandh & Mr. A. Punniyakodi, IV year ECE	Design of Low Power Hybrid Full Adder Using XOR/XNOR Circuit
26.	Mrs. B. Mary Amala Jenni, AP/ECE, Ms. K. Priyadharshini & Ms. K. Nandhini, IV year ECE	Design and Analysis of RF LNA with Transistor Configurations
27.	Mrs. D. Uma Maheswari, ASP/ECE, Ms. M. Stephy Grafi & Ms. R. Shalini, IV year ECE	Deep CNN Based Automated Diabetic Retinopathy Disease Identification System
28.	Ms. M. Sahini Priya, AP/ECE, Ms. P. Yuvarani & Mr. K. Raja, IV year ECE	Design of 4:1 Multiplexer Based Adder Using Various Logic Techniques
29.	Mr. S. Bala Basker, ASP/ECE, Mr. M. Selva & Mr. N. Rajadurai, IV year ECE	Design and Implementation of Internet Controlled Switch Box



Sl. No.	Name	Title
30.	Mr. D. Pauline Freeda, ASP/CSE, Ms. R. Sangeetha, Ms. K. Aswini & Ms. E. Kanniyammal, IV year CSE	Secure Scheme for Medical Image Storage in Cloud
31.	Ms. V. Britta Devi, AP/CSE Ms. K. Kavitha, Ms. M. Monisha & Ms. R. Vishnupriya, IV year CSE	Integration of a Chatbot with Education for the Smart Learning

## Ph.D. Viva-Voce

For the first time a Ph.D. Viva-voce was conducted in St. Anne's College of Engineering and Technology on 29<sup>th</sup> December 2020. Mother Teresa Women's University, Kodaikanal, has appointed Dr. M. Meenatchi, Professor and Head, Department of Chemistry, Gandhigram Rural Institute, as the External Examiner to conduct Viva-voce of Mrs. M. Kalaimathi, the Ph.D. Scholar of Dr. Sr. Y. Yesu Thangam, Secretary, St. Anne's CET, through Google Meet platform. The candidate presented her Ph.D. work in an effective way within the stipulated time. With confidence she answered almost all the questions put forth by the Examiner and the audience. Our staff and sisters from St. Anne's CET and AVPTC showed much interest to attend this Viva-voce. Dr. Sr. Quinsly, Secretary, Jayaraj Annapackiyam College, Dr. Sr. Jesurani, Principal, Jayaraj Annapackiam College, and many participants from other colleges and abroad took part in this event. Towards the end, the Examiner announced that the candidate defended her thesis very well and declared that she can be recommended to Mother Teresa Women's University to confer the Ph.D. degree and from that day onwards she can be called as Dr. Kalaimathi.

## STAFF PARTICIPATION

Our staff members from all departments attended various events such as Webinar, Faculty Development Programme, Short Term Course and Training Programme to update their knowledge.

The details are given below:

## Faculty Development Programme

Sl. No.	Faculty Name & Designation	Title	Institution	Date
1.	Sr. Annai Theresa, AP/EEE	Electrical & Computer Engineering	National Institute of Technology, Raipur	4 <sup>th</sup> - 8 <sup>th</sup> Jan 2021
		Research Conclave on Power Electronics	New Horizon College of Engg., Bengaluru	25 <sup>th</sup> - 29 <sup>th</sup> Jan 2021
		Leadership & Excellence	Jawaharlal Nehru Technological University College of Engg., AP	1 <sup>st</sup> - 5 <sup>th</sup> Feb 2021
		Trends and Challenges in Power Converters and Control	College of Engg. & Tech., Chennai	9 <sup>th</sup> - 23 <sup>rd</sup> Feb 2021
		Block Chain Technology: Current Trends and future aspects in Smart Grid	Gyan Ganga Institute of Tech. and Science, Jabalpur	12 <sup>th</sup> - 16 <sup>th</sup> Jul 2021

Sl. No.	Faculty Name & Designation	Title	Institution	Date
2.	Mr. K. Saravanan, ASP/MECH	Entrepreneurship Development	University College of Engg., Villupuram	21 <sup>st</sup> - 23 <sup>rd</sup> Jan 2021
3.	Mr. T. Elangovan, AP/ MECH			
4.	Mr. R. Jayakumar, AP/ MECH			
5.	Mr. D. Pauline Freeda, ASP/CSE	Foundation Program on ICT for Education	Sri Ramakrishna Polytechnic College, Coimbatore	28 <sup>th</sup> - 31 <sup>st</sup> Jan 2021
6.	Mrs. Z. Asmathunnisa, AP/CSE			
7.	Dr. Sr. S. Anita, HOD/ECE	Li-Fi Technology	E & ICT Warangal and SRM IST, Chennai	13 <sup>th</sup> -22 <sup>nd</sup> Apr 2021
		Advanced Trends in biomedical research using Deep learning techniques	Mepco Schlenk Engineering College, Sivakasi	17 <sup>th</sup> - 21 <sup>st</sup> May 2021
8.	Mr. S. Durai Raj, AP/ECE	How Teachers can Make a Difference	VR Siddhartha Engg. College, AP	15 <sup>th</sup> - 17 <sup>th</sup> Apr 2021
9.	Mr. R. Sasikumar, AP/ MECH	Advanced Applications in Composite materials	Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engg. College, Chennai	17 <sup>th</sup> - 22 <sup>nd</sup> May 2021
10.	Mr. M. Sivamanikandan, AP/ MECH,	Advanced Applications in Composite materials	Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engg. College, Chennai	17 <sup>th</sup> - 22 <sup>nd</sup> May 2021
		Impact of Covid on Higher education and research initiatives	Sri Venkateshwara College of Engg. & Tech., Pondicherry	24 <sup>th</sup> - 28 <sup>th</sup> May 2021
11.	Ms. Sahini Priya, AP/ECE	Signals and Systems	Dr. Mahalingam College of Engg. & Tech., Pollachi	7 <sup>th</sup> -12 <sup>th</sup> Jun 2021
12.	Mrs. J. Joaquine Arokiamary, AP/S&H	Global Competitiveness and the Role of Professional Societies in Academic Arena	Bharat Institute of Higher Education and Research, Chennai	22 <sup>nd</sup> Jun 2021
13.	Mrs. E. Indhuma, AP/CSE	Identification of Cyber-criminal suspects using Data Analytical Techniques and R-studio software	Francis Xavier Engg. College, Tirunelveli	27 <sup>th</sup> - 31 <sup>st</sup> Jun 2021



Sl. No.	Faculty Name & Designation	Title	Institution	Date
14.	Ms. P. Sujithra Santhakumari, AP/CSE	Identification of Cyber-criminal suspects using Data Analytical Techniques and R-studio software	Francis Xavier Engg. College, Tirunelveli	27 <sup>th</sup> - 31 <sup>st</sup> Jun 2021
		Research Trends in Computer Vision and Natural Language Processing	Northcap University College, Haryana	19 <sup>th</sup> - 23 <sup>rd</sup> Jul 2021
15.	Ms. V. Britta Devi, AP/CSE	Research Trends in Computer Vision and Natural Language Processing	Northcap University College, Haryana	19 <sup>th</sup> - 23 <sup>rd</sup> Jul 2021
		Deep learning for Computer Vision	KIET Group of Institutions, Ghaziabad	26 <sup>th</sup> - 30 <sup>th</sup> Jul 2021

## Webinar

Sl. No.	Faculty Name & Designation	Title	Institution	Date
1.	Dr. A. Azhagappan, ASP/S&H	Emerging Trends in Mathematical Sciences and Engineering Applications	University College of Engg., Adikavi Nannaya University, AP	6 <sup>th</sup> & 7 <sup>th</sup> Jan 2021
2.	Mr. A. Richard Pravin, ASP/EEE	Issues, Challenges and Opportunities in Solar Photovoltaic Systems	A.K.T Memorial College of Engg. & Tech., Kallakurichi	22 <sup>nd</sup> Jan 2021
3.	Sr. Annai Theresa, AP/EEE	Importance of Conserving energy in every walk of life	Christ College of Engg. & Tech., Puducherry	14 <sup>th</sup> Feb 2021
4.	Mrs. Z. Asmathunnisa, AP/CSE	AI and Machine Learning	St. Joseph's College of Arts & Science, Cuddalore	17 <sup>th</sup> May 2021
		Block Chain Technology	SSN College of Engg., Chennai	17 <sup>th</sup> May 2021
		Introduction to R Renewable Energy Systems	Saividy Institute of Tech., Chennai	18 <sup>th</sup> Jun 2021
5.	Ms. P. Sujithra Santhakumari, AP/CSE	Some Wanderings in Medical Informatics and Biometrics with Machine Learning & Deep Learning- Some Baby Steps	St. Anne's CET, Panruti	20 <sup>th</sup> May 2021
		Machine learning with MATLAB	Noorul Islam Centre for Higher Education, Kumarakovil	11 <sup>th</sup> Jun 2021

Sl. No.	Faculty Name & Designation	Title	Institution	Date
5.	Ms. P. Sujithra Santhakumari, AP/CSE	Awareness of COVID and Importance of Vaccination	Annai Vailankanni College of Engg., Kanyakumari	12 <sup>th</sup> Jun 2021
		Modern Trends in Environment	Annai Vailankanni College of Engg., Kanyakumari	18 <sup>th</sup> Jun 2021
6.	Mr. B. Arun Kumar, AP/ECE	E-Vehicle on Board Diagnostics with IOT	Idhaya Engg. College for Women, Chinnasalem	29 <sup>th</sup> May 2021
		Awareness of Covid and Importance of Vaccination	Annai Velankanni College of Engg., Kanyakumari	12 <sup>th</sup> Jun 2021
7.	Mr. S. Durai Raj, AP/ECE	E-Vehicle on Board Diagnostics with IOT	Idhaya Engg. College for Women, Chinnasalem	29 <sup>th</sup> May 2021
8.	Mrs. B. Mary Amala Jenni, AP/ECE			
9.	Mr. S. Manavalan, ASP/CSE	Innovation and Start-up Ecosystem	Christ College of Engg. and Tech., Puducherry	5 <sup>th</sup> Jun 2021
10.	Mrs. E. Indhuma, AP/CSE			
11.	Mr. K. Shanmuga Elango, AP/MECH	World Class Manufacturing	Annamalai University, Chidambaram	29 <sup>th</sup> Jun 2021

## Short Term Course

Sl.No.	Faculty Name & Designation	Title	Institution	Duration
1.	Dr. A. John Peter, HOD/S&H, Mr. N. Syed Mubarak, AP/S&H, Mr. D. Sampath Kumar, AP/S&H, Mrs. J. Joaquine Arokia Mary, AP/S&H, Mrs. S. Ramya, ASP/S&H, Mr. R. Viswalingam, AP/S&H & Mr. V. Prakash, AP/S&H	Computational Thinking in India	Sanskrit Club, IIT Roorkee	16 <sup>th</sup> -20 <sup>th</sup> Jan 2021
2.	Dr. D. OmMurugadhasan, HOD/MECH	Next Generation Technology in Manufacturing, Phase-II	Pondicherry Engg. College, Puducherry	22 <sup>nd</sup> -27 <sup>th</sup> Feb 2021
	Mr. R. Sasikumar, AP/MECH Mr. K. Shanmuga Elango, ASP/MECH			
3.	Mr. R. Sasikumar, AP/MECH	Next Generation Technology in Manufacturing, Phase-III	Pondicherry Engg. College, Puducherry	8 <sup>th</sup> -13 <sup>th</sup> Mar 2021
4.	Ms. P. Sujithra Santhakumari, AP/CSE	Level-I Module in Cloud Computing Technologies	Multicloud 4U Academy	9 <sup>th</sup> -11 <sup>th</sup> Jun 2021



## Training Programme

Sl.No.	Faculty Name & Designation	Title	Institution	Duration
1.	Sr. Annai Theresa, AP/EEE	Innovation Ambassador Training	MoE's Innovation Cell AICTE, New Delhi	Apr 2021
		Challenges and Opportunities in Implementing IoT and Machine Learning for Smart Grid Distribution System (Phase-III)	Kongunadu College of Engg. &Tech., Tholurpatti	18 <sup>th</sup> -23 <sup>rd</sup> Jan 2021
2.	Mrs. E. Indhuma, AP/CSE	Building a Face Recognition App using python	The Guinness world record event by NEAT,AICTE& GUVI	24 <sup>th</sup> Apr 2021
3.	Ms. V. Brittadevi, AP/CSE			
4.	Ms. P. Sujithra Santhakumari, AP/CSE			

## Workshop

Sl. No.	Faculty Name & Designation	Title	Institution	Duration
1.	Ms. V. Britta Devi, AP/CSE	Ethical Hacking using Python	Pantech Solutions, Coimbatore	25 <sup>th</sup> Apr 2021
2.	Mr. B. Arun Kumar, AP/ECE	Research Methodology	Annai Velankanni College of Engg., Kanyakumari	2 <sup>nd</sup> - 4 <sup>th</sup> Jun 2021
3.	Mr. S. Durai Raj, AP/ECE			
4.	Mr. M. Siva Manikandan, AP/Mech	An overview on Patents and Procedures for Protection	Francis Xavier Engg. College, Tirunelveli	5 <sup>th</sup> Jun 2021
		Patent Commercialization Methods and Strategy		19 <sup>th</sup> Jun 2021
		Strategies of IP Protection for Entrepreneurs		25 <sup>th</sup> Jun 2021
5.	Ms. P. Sujithra Santhakumari, AP/CSE	Cloud Computing Technologies	Annai Vailankanni College of Engg., Kanyakumari	9 <sup>th</sup> - 11 <sup>th</sup> Jun 2021
6.	Mr. S. Manavalan, ASP/CSE			
7.	Mrs. E. Indhuma, AP/CSE			
8.	Mrs. J. Joaquine Arokia Mary, AP/S&H	Online National Yoga	Saint Francis De Sales College, Nagpur	17 <sup>th</sup> -21 <sup>st</sup> Jun 2021

## Staff as Resource Person

- Dr. Sr. S. Anita, HOD/ECE served as resource person in a Guest lecture on “Effective Technical Paper Writing” at Annai Velankanni Polytechnic College, on 1<sup>st</sup> March 2021.
- Mr. S. Balabasker, ASP/ECE and Mr. S. Durairaj Raj, AP/ECE conducted a three day workshop on “Programming Arduino using Tinker CAD” from 10<sup>th</sup> to 12<sup>th</sup> March 2021, for Annai Velankanni Polytechnic College III Year EEE Students at St. Anne's College of Engineering and Technology. Students learned to control various (Analog & Digital) devices using Arduino Uno. Totally 102 Students participated in the workshop and benefitted.



Guest Lecture on Effective Technical Paper Writing



Three day workshop on Programming Arduino using Tinker CAD

## Award

- Dr. A. Azhagappan, ASP/S&H received “International Scientist Award on Engineering, Science and Medicine” from VIDGOOD Professional Association on 6<sup>th</sup> February 2021.



## Reviewer

- Dr. Sr. S. Anita, HOD/ECE, is serving as a reviewer for the Journal of Advances in Mathematics and Computer Science and Journal of Engineering Research and Reports from June 2020.
- Dr. A. Azhagappan, ASP/S&H, is a member of Editorial Board in the journals titled “Journal of Statistics and Mathematical Engineering” and “Applications and Applied Mathematics: An International Journal”, from April 2021.

## STUDENT PARTICIPATION

- Students of St. Anne’s CET have actively participated in various events and paper presentation contests in reputed institutions. They have also showcased their technical skill by publishing papers in international journals. The following are the achievements and participation of the students under the above-mentioned categories.
- Ms. K. Kalpana and Ms. M. Nirmala of IV year EEE published a paper “A Novel 31 Level Cascaded H-Bridge Inverter” in the Journal of IEEE Explore, Electronic ISBN:978-1-7281-7741-0, Print on Demand (PoD) ISBN:978-1-7281-7742-7, 20<sup>th</sup> April 2021.
- Mr. D. Kaviyarasan and Mr. N. Kumaran of IV year Mechanical Engineering, have published a paper of “Modelling and Analysis of Tool life on CNC Turning of Aluminium alloy 6063 using Tungsten Carbide Tools: Application of Taguchi Technique”, in the International Journal of Modern Trends in Science and Technology, 2021, pp.118-122.
- The following students of IV year ECE have presented papers in The National level technical symposium, organized by Department of Electronics and Communication Engineering, Idhaya College of Engineering for Women, Chinna Salem, on 13<sup>th</sup> March 2021 as below:

SL.NO.	STUDENT NAME	PAPER TITLE
1.	Ms. P. Yuvarani & Mr. K. Raja	Design of 4:1 Multiplexer Based Adder Using Various Logic Techniques
2.	Ms. M. Nandhini & Ms. S. Abitha	Reconfigurable H-Shaped Dielectric Resonator Antenna
3.	Mr. S. Anandh & Mr. A. Punniyakodi	Design of Low Power Hybrid Full Adder Using XOR/XNOR Circuit

## DEPARTMENT ACTIVITIES

Sl. No.	Event	Title	Resource Person	Participant	Duration
1.	Webinar	Guidelines for Anna University Online Mode Examinations 2021	Mr. S. Rajarajan, AP/CSE	EEE & IV year CSE students	22 <sup>nd</sup> Jan 2021
2.	Practical Training and Field Visit	Solar Campus Lighting System of St. Anne’s CET	Mr. A. Richard Pravin, ASP/EEE,	EEE students	19 <sup>th</sup> Feb 2021



Sl. No.	Event	Title	Resource Person	Participant	Duration
3.	Workshop	Introduction to Internet of Things (IoT)	Mr. S. Bala Basker, ASP/ECE	II year EEE students	18 <sup>th</sup> Mar 2021
4.	Webinar	Guidelines For GATE Preparation	Ms. P. Sujithra Santhakumari, AP/CSE	CSE students	17 <sup>th</sup> Apr 2021
5.	Webinar	Word Press	Ms. V. Britta Devi, AP/ECE	III year CSE students	27 <sup>th</sup> Apr 2021
6.	Webinar	Virtual Lab for Communication Skills	Dr. D. Sampath Kumar, AP/S&H	First Year students	28 <sup>th</sup> Apr 2021
7.	Webinar	Digital Initiatives in Higher Education	Dr. A. John Peter, HOD/S&H	First Year students	30 <sup>th</sup> Apr 2021
8.	Webinar	Basics of Embedded systems and its applications	Mr. B. Arun Kumar, AP/ECE & Mr. S. Bala Basker, ASP/ECE	III & IV Year ECE Students	1 <sup>st</sup> May 2021
9.	Webinar	Healthy body has a healthy mind	Mr. A. Thomas Aravamutham, Director of Physical Education	First Year students	7 <sup>th</sup> May 2021
10.	Awareness Programme	Guidelines for Anna University Online Mode Examinations-AM 2021	Mr. S. Rajarajan, AP/CSE	EEE students	19 <sup>th</sup> Jun 2021



Webinar on Digital Initiatives in Higher Education



Virtual Lab for Communication Skills

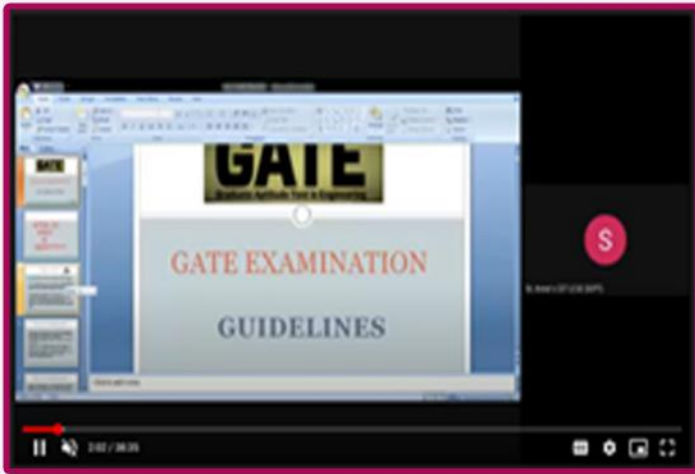


Guidelines for Anna University Online Mode Examinations



Webinar on Word Press





**Webinar on Guidelines For GATE Preparation**

## RESEARCH AND DEVELOPMENT CELL

- Research and Development Cell organized a Seminar on “Call for Paper Writing and Research Report on Innovation” on 8<sup>th</sup> January, 2021. Seminar was presented by Dr. Sr. S. Anita, M. Tech., Ph.D., HOD/ECE. She started with an introduction about research and explained how to write a research paper. It is an eye opener for students to write a research paper. She explained her research work in detail. Nearly 100 students and 20 faculty of our college actively participated in this knowledge gaining event and got benefitted.



**Seminar on  
Call for Paper Writing and Research Report on Innovation**

## TRAINING AND PLACEMENT CELL

- A 12 day placement training program on “Communication skills, Interview skills and Technical skills” for IV year students was conducted by a team of trainers from i5certi5 (A sister concern of MBID Technologies), to enhance the technical skills and to improve the interview skills of students from 24<sup>th</sup> March, 2021 to 6<sup>th</sup> April, 2021.
- A virtual campus interview has been conducted for the students of CSE and ECE on 9<sup>th</sup> April 2021 for Hakuna Matata Tech Solutions, Chennai.
- A virtual campus interview was conducted for the students of CSE and ECE on 10<sup>th</sup> April 2021 for Apisero Global Integration Solutions, Chennai.
- An On-campus interview has been conducted for the students of EEE and MECH on 10<sup>th</sup> April 2021 for Wonjin Autoparts India Private Limited, Chennai. 50 students from both the departments attended the interview and 30 students were selected and job offer letters were issued on the same day. The students joined the company on the next working day.



**Wonjin Autoparts India Private Limited, Chennai**

- For the EEE and MECH final year students, an On-campus interview was conducted on 10<sup>th</sup> April 2021 for Daejung Moparts Pvt. Ltd., Chennai. 50 students from both the department were attended the interview and around 10 students were selected and job offer letters were issued on the same day, selected students joined the company on the next working day.
- On 16<sup>th</sup> April 2021, an On-campus interview was conducted for the MECH and ECE students for Rishvanthi Technologies, Chennai. Totally 50 students attended the interview and around 30 students were selected and job offer letters were issued on the same day and students joined the company on the next working day.





Daejung Moparts Pvt Ltd, Chennai



Rishvanthi Technologies, Chennai.

## NATIONAL SERVICE SCHEME

- The National Service Scheme (NSS) of St. Anne's College of Engineering and Technology conducted a one day camp to create awareness on waste disposal and cleanliness at Thirunavalur, on 6<sup>th</sup> March, 2021. The NSS Programme Officers and the NSS volunteers actively involved in cleaning the Government Higher Secondary School premises and its surroundings. They painted the desks and benches in the school and created awareness on keeping the campus clean and green. The school authorities appreciated the work of the volunteers and thanked them.
- Mr. J. Ramesh, NSS Program Officer, Unit 1 of St. Anne's CET, conducted a "Self Motivational Programme" for the NSS Volunteers on 3<sup>rd</sup> February, 2021 in the College premises. He also organized an online programme on "No Tobacco-Awareness and Pledge Taking Programme" to the NSS Volunteers on 31<sup>st</sup> May 2021.
- Mr. S. Durairaj, AP/ECE, NSS Programme Officer, Unit 2, delivered a talk on "Road Safety is Life Safety" for the NSS Volunteers of St. Anne's CET on 5<sup>th</sup> February, 2021.



One day Camp on Creating Awareness on Waste Disposal and Cleanliness



Self Motivational Programme



Road Safety is Life Safety



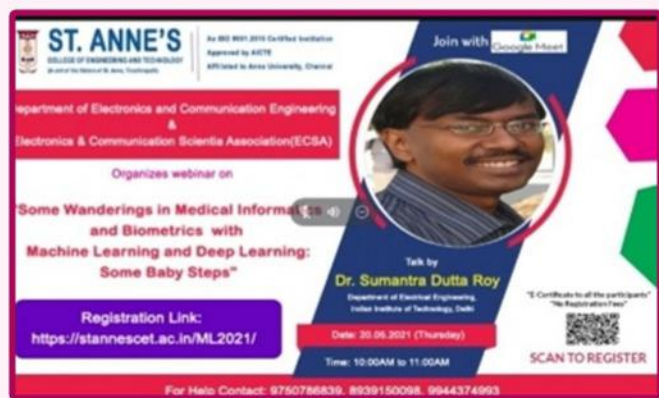
- Department of ECE organized two webinars:

1. Webinar on “Future of Wireless communication” on 5<sup>th</sup> March 2021. Dr. M. Phemina Selvi, ASP/ECE, University College of Engineering, Villupuram, served as resource person. Students learnt the scope and job opportunities available in wireless communication area.



**Webinar on Future of Wireless communication**

2. Webinar on “Some wanderings in medical informatics and Biometrics with machine learning some baby steps” by Dr. Sumantra Dutta Roy, Professor, Department of Electrical Engineering, IIT, New Delhi on 20<sup>th</sup> May 2021.



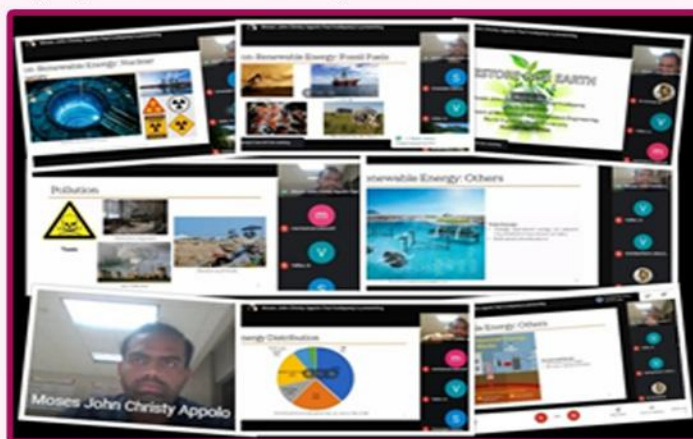
**Webinar on Some wanderings in medical informatics and Biometrics with machine learning some baby steps**

- Department of CSE conducted an Online competition based on environment awareness (Quiz, Poetry and Missing Letters) to celebrate World Environment Day on 5<sup>th</sup> June 2021 at 10:00 AM through the link <https://stannescet.ac.in/WED2021/>. Nearly 120 members have registered for the competition. E-certificate has been issued for all the participants. Certificate of merit was given for the participants who have secured 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place in the poetry competition.



**Online Competitions on World Environment Day**

- To create awareness to protect the earth, the Department of Science and Humanities has organized a Webinar titled on “Restore Our Earth” on 22<sup>nd</sup> April, 2021. This lecture was conducted for the I year students. The Resource Person was Mr. P. Moses John Christy Appolo, Department of Mechanical and Aerospace Engineering, North Carolina State University. Later, Mr. P. Moses John Christy interacted with the students and discussed about climate and environmental literacy, climate restoration technologies, reforestation efforts, regenerative agriculture, equity and environmental justice and citizen science

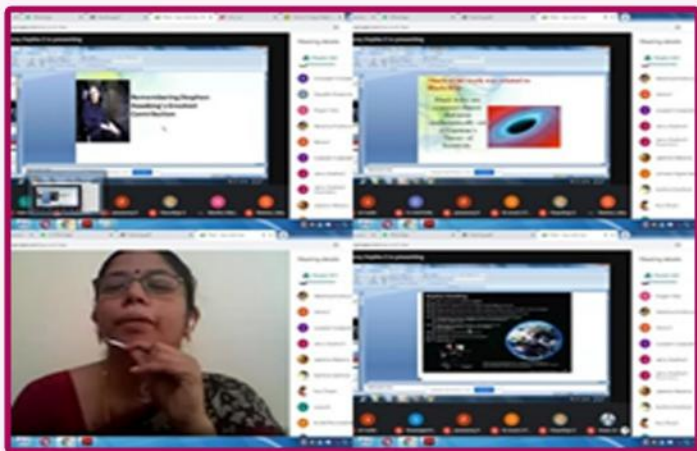


**Webinar on Restore Our Earth**

- Department of Electrical and Electronics Engineering has conducted a three day practical training workshop on “Product Development Using Internet of Things (IoT)”, presented by Mr. S. Bala Basker, ASP/ECE, St. Anne’s CET and Dr. G. R. Kanagachidambaresan, Professor, Department of CSE, Veltech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, from 18<sup>th</sup> to 20<sup>th</sup> March, 2021.



- The Department of Science and Humanities has organized a Webinar on “Remembering Stephen Hawking's Greatest Contributions” on 8<sup>th</sup> January 2021 to remember the primary scientific accomplishments of Stephen Hawking, the renowned scientist. The resource person, Dr. S. Jancy Sophia, Assistant Professor, Department of Chemistry, C. Kandasamy Naidu College for Women, Cuddalore, revealed his early life, about his books and Awards and Honors received by him. The seminar was heart touching and prof. Hawking's, proved to be a great inspiration for all of us.



**Webinar on  
Remembering Stephen Hawking's Greatest Contributions**

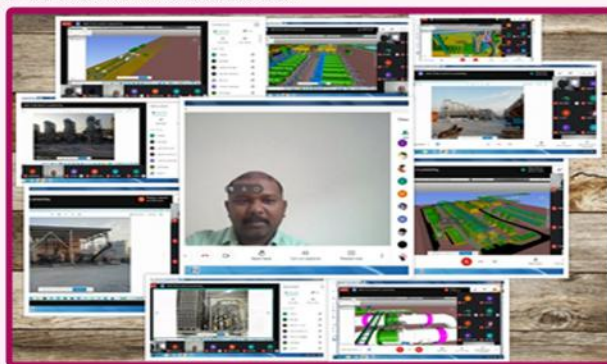
- The Department of Science and Humanities has arranged an Inter-Collegiate Virtual Quiz & Science Fair Competitions -2021, on 8<sup>th</sup> January 2021, to remember Stephen Hawking, the renowned scientist, known for his contributions to the study of the universe, from the origins of the cosmos to the mysterious nature of black holes. All of them showcased their best talent and abilities.



**Inter-College Virtual Quiz & Science Fair Competitions-2021**

### VIRTUAL INDUSTRIAL VISIT

- The Department of Science and Humanities has organized a Webinar on “Virtual Industrial Visit” on 8<sup>th</sup> January 2021 at 11.30 a.m. The objective of the visit is to provide an opportunity for the students to expose themselves virtually to industrial environment and correlate the theoretical knowledge with practical aspect. Mr. A. Mark Vimal Jarard, Pre-commissioning Manager, Desalination Plant, Jurong Engineering Limited, Kingdom of Bahrain, explained the importance of safety rules and safety procedures followed inside the company and discussed about the company product and operation. He systematically explained how sea water is converted into potable water and it was useful to the students.



### CELEBRATION @ ST. ANNE'S CET

- The International Women's day was celebrated on 8<sup>th</sup> March, 2021, in the College Auditorium. Competitions like pencil drawing, hairdo, vegetable / fruit carving and mehendi were conducted for girl students and women staff members before the celebration. The celebration was started by invoking the Almighty for His grace. Dr. R. Arokiadass, Principal, in the presidential address highlighted the importance of vital roles women play in the society. Rev. Sr. Punitha Jilt, Vice Principal, felicitated the gathering. The Chief Guest, Dr. M. Arockia Mary, former HOD, Dept. of Tamil, Jayaraj Annapackiam College for Women, Periyakulam, narrated how women's day celebration has developed over the years and its final existence today. She also elaborated why International Women's day is celebrated and gave examples of various women's life from literature and the real life. Her talk encouraged and lifted up the students and the staff. Song, dance, mime and fashion show competitions were conducted on the stage and the Chief guest and Principal distributed prizes to the winners. This celebration brought, happiness and a sense of unity among all.





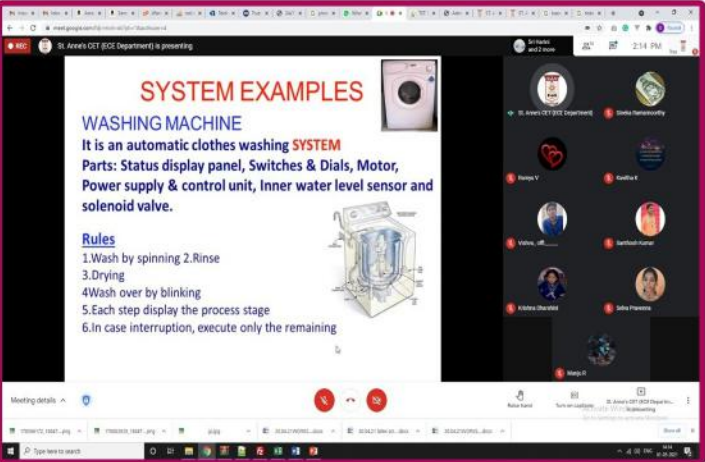
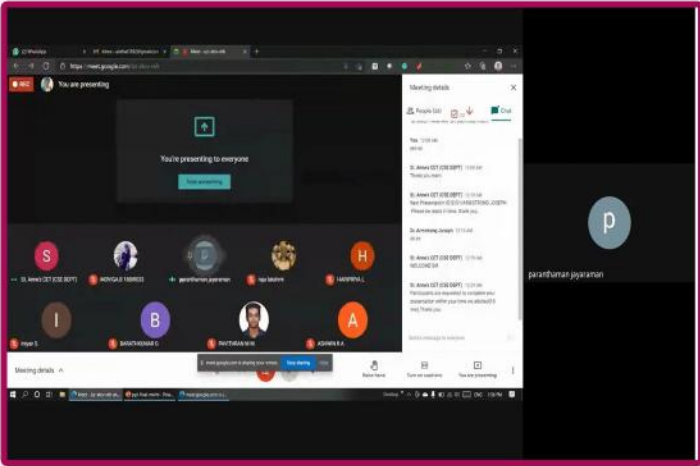
International Women's Day Celebration



Workshop on Product Development Using Internet of Things (IoT)



International Conference (ICRDSET'21)



Webinar on Basics of Embedded Systems and its Applications



Workshop on Introduction to Internet of Things



## Events @ ST.ANNE'S



Solar Campus Lighting System of St. Anne's CET



Ph.D. Viva-Voce

### *“A beginning and an ending suggest the existence of a journey”*

This News Epistle has highlighted the achievements, awards and recognition of the Faculty and Students of St. Anne's College of Engineering and Technology. The immense talent pool of the entire teaching and non-teaching fraternity of St. Anne's College of Engineering and Technology has risen to greater heights year after year. We wholeheartedly thank all the Faculty and Students for their overwhelming participation and contribution towards the release of this News Epistle. To conclude, we render our gratitude to all those who have been the torch bearers of various activities and events organized throughout the academic year.

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