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SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
(An ISO 9001:2015 Certified Institution)
Athipalayam, Coimbatore - 641 110. Web site: www.sriet.ac.in Ph: 0422 2697792
ISO 9001:2015

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EMEER-2K22

Magazine

SRIET Profile:

Sri Ranganathar Institute of Engineering and Technology (SRIET) came into existence in 2011, out of an ardent desire of Dr. V. Narayanasamy to contribute manifold to the society that nurtured him. SRIET is an Innovative Educational Institution where the curiosity, creativity and intellectual joy of students all drive to academic excellence. Our Institution provides complex problem-solving skill and imbibes service to the public good. SRIET is defined by strong association and working in ways that excel in traditional boundaries.

SRIET's academic excellence is rooted in a student-centred model of learning. The Curriculum is an accurate approach to education that pushes the students to be creative thinkers, intellectual risk-takers and entrepreneurial problem-solvers. SRIET leaves students prepared to thrive as independent and innovative leaders and equipped with the tools they need to become the next generation of leaders in their respective fields.

VISION:

To enable our students to have a higher degree of competence in enhancing efficiency in energizing the world and maximizing green energy.

MISSION:

Our Mission is to Facilitate Students with Harmonious Teaching and Experiential Learning by Integrating Industrial and Societal Needs with Curriculum, Providing Requisite Infrastructure Facilities and Imbibing Ethical Values.

PRINCIPAL'S DESK :

"Welcome to our SRIET, on behalf of all of our faculty, staff and students… In today's competitive global world, a skilled technical education is becoming increasingly important for future success.As Principal, I am extremely proud of our college's rich tradition of providing valuable, experience-based engineering education since its inception. Our programs prepare students to become leaders with the moral depth and intellectual rigor required to meet the challenges of a critical societal transition. We offer individualized, high-quality education delivered by an experienced and well-qualified faculty who bring objectivity and a practical focus to their classrooms. We attract students from a wide range of ethnic and cultural backgrounds, resulting in a vibrant and stimulating classroom environment.With this message, I'd like to wish all of our students, alumni, and future students a very positive and effective experience together."

Warm regards,

Dr. H.Ganeshan, M.E., Ph. D.,Principal

ABOUT THE DEPARTMENT:

Electrical engineers synthesize science, mathematics, technology, and application-oriented designs into world-class consumer products, timely microprocessors, state-of-the-art computers, advanced electronic components, and much more. From cutting-edge technology revolutions to real life applications, the innovations of electrical engineers continue to lead the future and elevate the standards in the marketplace. With a shortage of electrical engineering talent in the job market, the demand for graduates with an electrical engineering degree remains at an all-time high.

VISION OF THE DEPARTMENT:

To enable our students to have a higher degree of competence in enhancing efficiency in energizing the world and maximizing green energy.

MISSION OF THE DEPARTMENT:

- To facilitate students to adept latest technology in addressing the challenges in transmission and distribution of electricity.
- To engage and collaborate with education and experience towards building unified technology.
- To kindle the students to innovate in designing and developing new products and process that add value to customers.
- To inculcate the need of green energy in the minds of students to sustain Mother nature.

HOD'S DESK :

I believe my role as an educator is to guide and nurture the next generation to establish skills to achieve health, respect, prosperity and fulfilment.

The ability to be innovative and creative is important to me.

Dr. J MAALMARUGAN M.E., Ph.D.,
Professor, HOD
Email: maalmarugan@sriet.ac.in
Mobile: 84899 29865

I enjoy being challenged and inspired by the people around me. I am an avoid supporter of effective and innovative professional development that encourages teachers to be reflective and to continuously examine our practice to provide quality teaching and learning for each student. My role as head of the department is to keep up with latest trends and research and be an active partner in the college's professional development.

PROGRAM OUTCOMES (PO)

PO1: Engineering knowledge

Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/ development of solutions

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1

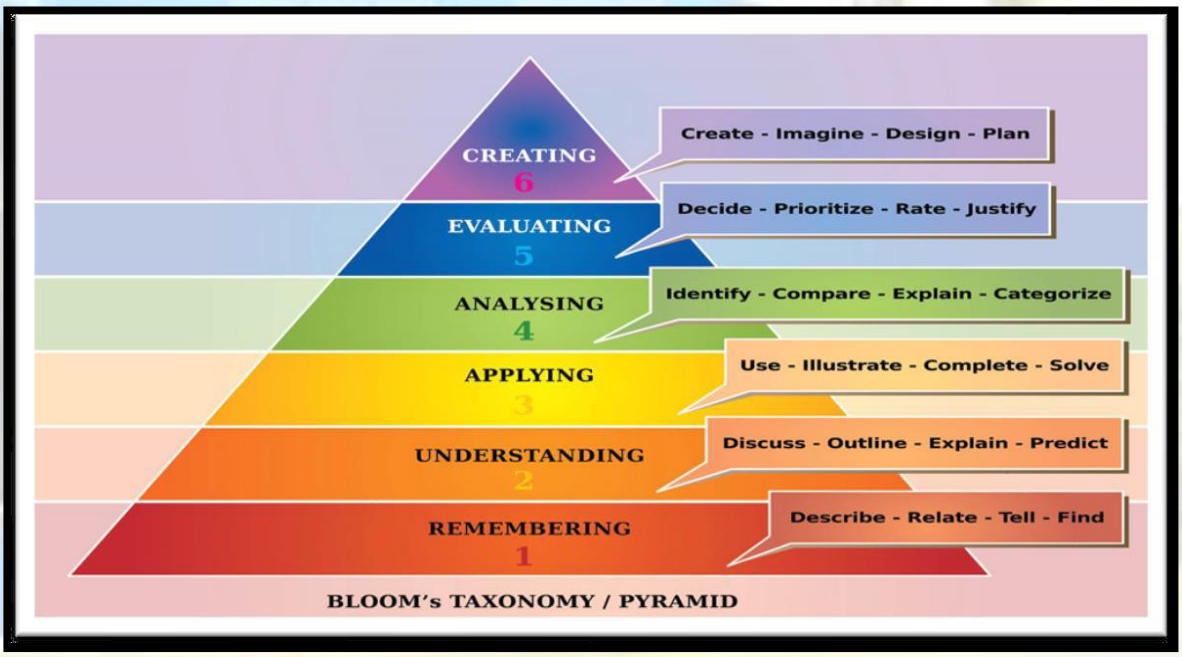
Capable to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.

PSO2

Comprehend, analyses and design products in core domains namely power, control and energy to meet the ever-changing demands of industry and society.

Bloom's taxonomy

Bloom's taxonomy was developed to provide a common language for teachers to discuss and exchange learning and assessment methods. Specific learning outcomes can be derived from the taxonomy, though it is most commonly used to assess learning on a variety of cognitive levels.



LABORATORY SPECIFIC:

Power Electronics and Drives Laboratory

It consists of different kinds of demo kits such as SCR characteristics, study kit for D.C motor control using chopper and necessary simulation software.

The lab is equipped with all the power electronic converters, DSP and FPGA based DC and AC Drives, Digital Integrated kits, Power supplies.

Electrical Machines Laboratory

Imparts the knowledge about characteristics and behaviour of the DC and AC Machines.

Well established with all kinds of motors, generators and latest Drives.

Control System Laboratory

Well established with instrumentation kits like LVDT, strain guage, thermistor and thermocouple kit

Provides an opportunity for the students to implement the control system concepts

Power System Simulation Laboratory

Furnished with high speed internet facilities in all the systems.

Software like ETABS in this lab interface the mathematical computing visualization and a powerful language to provide a flexible environment for technical computing in the areas of power electronics, control system, power system and electronic circuits.

Engineering Practices Laboratory

To impart the practical knowledge to the students about the Domestic Appliances, wiring, transformers DC machines, AC machines and basic electronic circuits.

Established with the basic tools, machines and accessories to provide service to all first year students

Renewable Energy Laboratory

The Renewable energy laboratory is equipped with solar photovoltaic training and research system, solar thermal training system, solar concentrator training system and wind energy training system.

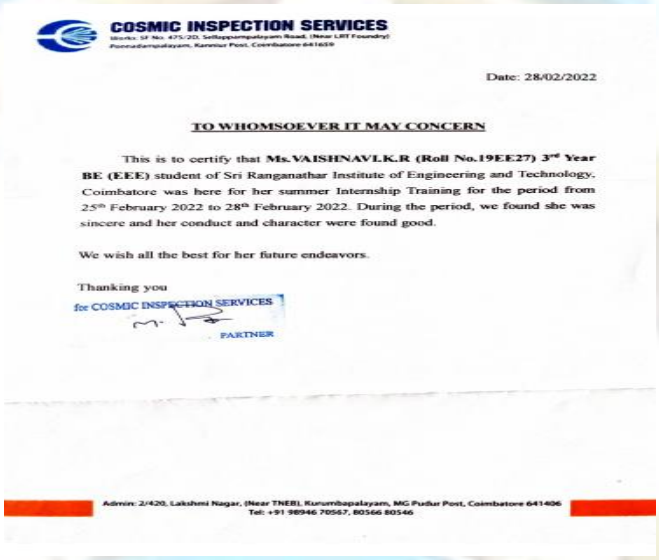
Students Activity:

Students Participation Details					
Academic Year	**Conference**	**Seminar/ Paper presentation**	**Workshop**	**Internship/ Training**	**Other Events**
CAY (2020-2021)	**15**	**5**	**12**	**4**	**10**

- **Dharmalingam A from IV EEE** participated in **online quiz series-1 on "Digital Electronics"**
- **Aswin Prabhu K from III EEE** participated in **online quiz series-13 on "Power System"**
- **Dharmalingam A from IV EEE** participated in **online quiz series-13 on "Power System"**
- **Pandiaraj J from IV EEE** participated in **online quiz series-13 on "Power System"**
- **Amerunisha M II EEE** participated in the **NewsQuiz contest**
- **Prajithakumari P II EEE** participated in the **Online Quiz series-16**
- **Prajithakumari P II EEE** participated in **"Quiz Series on Electric Vehicles-XXII"**
- **Vasantha jananeeswari N II EEE** participated in **"Quiz Series on Electric Vehicles-XXII"**
- **Divya R III EEE** participated in **"Quiz Series on Electric Vehicles-XXII"**
- **Ayyanar N IV EEE** take part in **Blood donation**
- **Jayasurya IV EEE EEE** take part in **Blood donation**
- **Gowtham G IV EEE EEE** take part in **Blood donation**
- **Amerunisha from II EEE Online Quiz Series-I on "Energy Management and Auditing"**
- **Sebastian V from II EEE completed online course on "AutoCAD"**
- **Siranjeevi S II EEE** participated in **Online Quiz Series - 25** on **Power Systems**
- **Amerunisha M** II EEE participated and scored 100% in the Online Quiz series-13 on **"Energy Management and Auditing"**
- **Vasantha jananeeswari N** II EEE participated and scored 100% in the Online Quiz series-13 on **"Energy Management and Auditing"**
- **Prajithakumari P** II EEE participated in the Online Quiz series-32 on **"Power Systems"**
- **Prajithakumari P** II EEE participated and scored 100% in the Online Quiz series-16 on **"Energy Management and Auditing"**
- **Sebastian V** from **III EEE** participated and **scored 9/10 on "Information Technology (IT)" virtual quiz contest**
- **Prajithakumari P from II EEE completed Online Quiz Series - 40 on "Power Systems" with a passing score of 100%**

- **Prajithakumari P from II EEE participated and scored 90% in the Online Quiz series-22 on "Energy Management and Auditing"**
- **Prajithakumari P from II EEE completed Online Quiz Series - 43 on "Power Systems" with a passing score of 70%**
- **Sebastian V from III EEE successfully taken part in the online quiz on "Facebook Security" and secured 87%**
- **Akash S from III EEE** participated in Quiz series on **"Electric Vehicles - XXXIV"**
- **Aswin Prabhu from III EEE** participated in Quiz series on **"Electric Vehicles - XXXIV"**
- **Mathankumar M from III EEE** participated in Quiz series on **"Electric Vehicles - XXXIV"**
- **Vaishnavi K from III EEE** participated in Quiz series on **"Electric Vehicles - XXXIV"**
- **Rahul R from III EEE** participated in **Paper Presentation** event on **"National Level Project Expo MEETUP 5.0"**
- **Rahul R from III EEE** attended **one day National Level Workshop on "Artificial Intelligence and Machine Learning Applications for Grid Integrated Renewable Energy Systems"**
- **Shanmugapriya S from III EEE** attended **one day National Level Workshop on "Artificial Intelligence and Machine Learning Applications for Grid Integrated Renewable Energy Systems"**
- **Prajithakumari P from II EEE** participated and scored 100% in the **Online Quiz series-44 on "Power Systems"**
- **Pandiaraj J from IV EEE** successfully completed the **NPTEL Course** on **"Ethical Hacking"**
- **Amerunisa M, Balaji N, Ferosha Thowhith S, Prajithakumari P, Sundar, Vasantha Jananeeswari N, Manirathnam S, Selvapandi P, Siddharth A, Umamaheswari R, Vinitha J** from **II EEE** and **Aswin prabhu K, Brindha M, Divya R, Lavanya K, Rahul R, Sanjay M, Sebastian V, Swetha C, Vaishnavi K R** from **III EEE** participated in various events like **project demo, paper presentation and quiz in technical symposium**
- **Ferosha thowhith S, Sriram S, Vignesh CN, Yazhini S, Jerin Titus J, Manirathnam S, Mohinthbabu J, Selvapandi P, Siddharth A, Vinitha J, Muralidharan V, Prajithakumari P, Vasantha jananeeswari N, Abisheik N, Umamaheswari R** from **II EEE** participated in various events like **paper presentation and technical quiz** in **national level technical symposium**

Student's Achievements:



COSMIC INSPECTION SERVICES

Date: 28/02/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.VAISHNAVI.K.R (Roll No.19EE27) 3rd Year BE (EEE)** student of Sri Ranganathar Institute of Engineering and Technology, Coimbatore was here for her summer Internship Training for the period from 25th February 2022 to 28th February 2022. During the period, we found she was sincere and her conduct and character were found good.

We wish all the best for her future endeavors.

Thanking you

for COSMIC INSPECTION SERVICES

PARTNER

Admin: 2/420, Lakshmi Nagar, (Near TNEB), Kurumbapalayam, MG Pudur Post, Coimbatore 641406
Tel: +91 98946 70567, 80566 80546

Information Security Education Awareness, Project Phase - II

Programme by

Ministry of Electronics & Information Technology

Government of India

Certificate of Participation

Certificate No : ISEA/NCSAM/FABSEC/29966

This is to certify that **Sebastian V** has successfully taken part in the online quiz on **Facebook Security** and secured **87%**. The online quiz is conducted as part of National Cyber Security Awareness organized by ISEA Project Phase- II, programme by Ministry of Electronics Information Technology (MeitY), Government of India.

ISEA Coordinator, Project Management Unit

SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service:SNR Sons Charitable Trust]
[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]
[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]
[ISO 9001:2015 Certified and all eligible programmes Reaccredited by NBA]
Coimbatore-641022

Department of Electrical and Electronics Engineering

(Accredited by NBA)

Certificate of Participation

Mangla Smart Energy Solutions

This is to certify that Mr. / Ms. S.SHANMUGAPRIYA of TECHNOLOGY SRI RANGANATHAR INSTITUTE OF ENGINEERING AND has attended the National Level One Day Workshop on Artificial Intelligence and Machine Learning Applications for Grid Integrated Renewable Energy Systems organized by the Department of Electrical and Electronics Engineering, Sri Ramakrishna Engineering College, Coimbatore held on 08th April 2022.

Dr.P. Sebastian Vindro Jude
Coordinator

Dr.C. Kathirvel
HoD - EEE

Principal

KONGU ENGINEERING COLLEGE

(AUTONOMOUS)

PERUNDURAI ERODE 638060, TAMILNADU.

QUIZ CLUB

CERTIFICATE OF PARTICIPATION

This is to certify that

M.THAYALAN

III YR, from

SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY

has participated in **AURA**

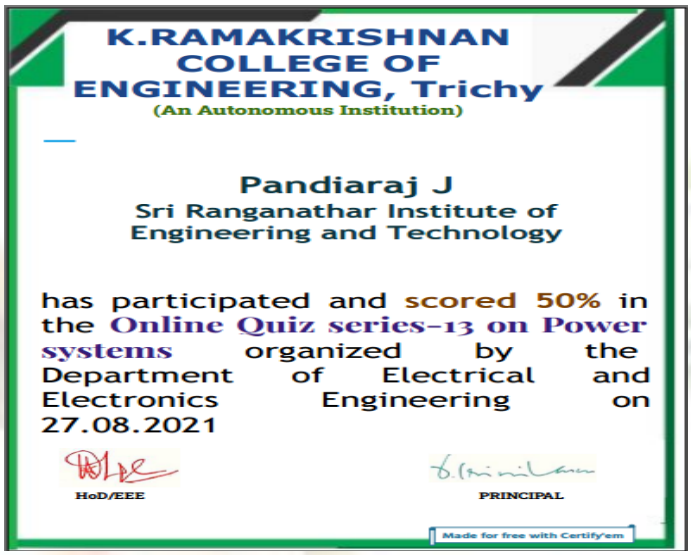
National Level Quiz for school and college students for celebrating World Environment Day organized by Quiz Club on 5th June 2022.

Dr.K.Senthilkumar, Faculty Co-Ordinator
Dr.R.Vennila, Faculty Co-Ordinator
Dr.K.Krishnamurthy, CCO-Student Affairs
Dr.V.Balusamy, Principal

Certificate ID:QC-KEC MMO 6/6/2022 15:35:45

*No Signature required for this Digitally Generated Certificate


K.RAMAKRISHNAN COLLEGE OF ENGINEERING
(Autonomous)
Affiliated to Anna University & Approved by AICTE
ISO 9001:2015 Certified Institution, Accredited by NAAC
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
(NBA ACCREDITED)
CERTIFICATE OF PARTICIPATION
THIS IS TO CERTIFY THAT
DHARMALINGAM A
of
SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY
has actively participated in QUIZ SERIES-1 ON DIGITAL ELECTRONICS organized by the IEEE Student Branch of K. Ramakrishnan College of Engineering, Trichy, Tamilnadu on 12-07-
Dr. K. DHAYALINI
HOD/EEE
Dr. D. SRINIVASAN
PRINCIPAL
IEEE


K.RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy
(An Autonomous Institution)
Pandiaraj J
Sri Ranganathar Institute of Engineering and Technology
has participated and scored 50% in the Online Quiz series-13 on Power systems organized by the Department of Electrical and Electronics Engineering on 27.08.2021
HoD/EEE
PRINCIPAL
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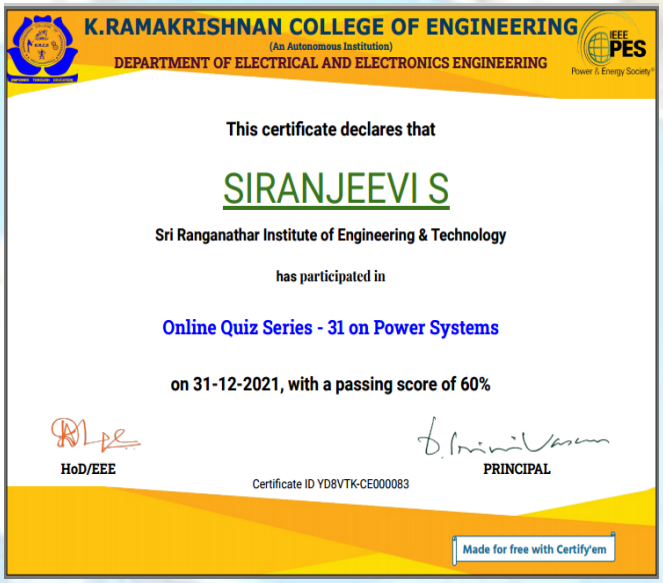
K.RAMAKRISHNAN COLLEGE OF ENGINEERING
(An Autonomous Institution)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IEEE PES Power & Energy Society
This certificate declares that
SIRANJEEVI S
Sri Ranganathar Institute of Engineering & Technology
has participated in
Online Quiz Series - 31 on Power Systems
on 31-12-2021, with a passing score of 60%
HoD/EEE
PRINCIPAL
Certificate ID YD8VTK-CE000083
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ISO 9001:2015 Certified Institution, Accredited by NAAC
IGBC The Institution of Green Engineers
Certificate of Participation
This is to certify that Mr./Mrs PRAJITHAKUMARI P , Electrical and Electronics Engineering , of Sri Ranganathar Institute of Engineering and Technology has participated and scored 100% in the Online Quiz series-12 on "Energy Management and Auditing" organized by the Department of Electrical and Electronics Engineering, K.Ramakrishnan College of Engineering, Trichy, Tamilnadu on 27-12-2021
C9GBMI-CE000130
HoD/EEE
PRINCIPAL
ENSAV CLUB
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SRI VENKATESWARAA COLLEGE OF TECHNOLOGY
BHB Nagar, Vadakal, Sriperumbudur - 602105
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
International Conference on Science, Engineering and Technology
ICSET 2k22
CERTIFICATE
This is to Certify that Dr./Mr./Mrs.
SIVASONA C
has presented a paper entitled
DRONE BASED SMART SURVEILLANCE SYSTEM
in Virtual 3rd International Conference on Science, Engineering and Technology (ICSET 2k22) held on 26th & 27th May 2022 organised by Sri Venkateswaraa College of Technology, Chennai
Convenor
Principal


SRI VENKATESWARAA COLLEGE OF TECHNOLOGY
BHB Nagar, Vadakal, Sriperumbudur - 602105
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
International Conference on Science, Engineering and Technology
ICSET 2k22
CERTIFICATE
This is to Certify that Dr./Mr./Mrs.
DHARMALINGAM A
has presented a paper entitled
IOT BASED BATTERY MANAGEMENT SYSTEM IN E-VEHICLES
in Virtual 3rd International Conference on Science, Engineering and Technology (ICSET 2k22) held on 26th & 27th May 2022 organised by Sri Venkateswaraa College of Technology, Chennai
Convenor
Principal

BHARATHEEYAM EXPLORING INDIA 75 Azadi Ka Amrit Mahotsav

KURIAKOSE GREGORIOS COLLEGE
PAMPADY, KOTTAYAM, KERALA, INDIA - 686502
(NAAC RE-ACCREDITED WITH B++ GRADE)

Certificate: Discovering India - 1

This is to certify that **AGUNANA** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

Dr. Shyla Abraham, Principal | Dr. Vipin K. Varughese, Coordinator, MCHE PO, NSS | Lt. Renish Joseph, Coordinator, IQAC ANO, NCC | Dr. Priya A, Coordinator, EBSB

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Certificate: Discovering India - 1

This is to certify that **AYYANAR NN** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

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This is to certify that **BALAMURUGAN S** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

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Certificate: Discovering India - 1

This is to certify that **JEEVARATHINASAMY M** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

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Certificate: Discovering India - 1

This is to certify that **KARTHICK R** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

Dr. Shyla Abraham, Principal | Dr. Vipin K. Varughese, Coordinator, MCHE PO, NSS | Lt. Renish Joseph, Coordinator, IQAC ANO, NCC | Dr. Priya A, Coordinator, EBSB

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Certificate: Discovering India - 1

This is to certify that **NANDHINI D** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

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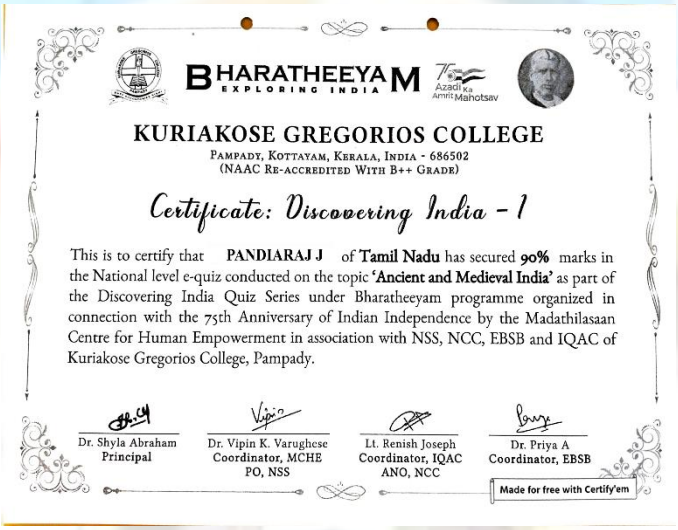

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PAMPADY, KOTTAYAM, KERALA, INDIA - 686502
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Certificate: Discovering India - 1

This is to certify that **PANDIARAJ J** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

Dr. Shyla Abraham, Principal | Dr. Vipin K. Varughese, Coordinator, MCHE PO, NSS | Lt. Renish Joseph, Coordinator, IQAC ANO, NCC | Dr. Priya A, Coordinator, EBSB

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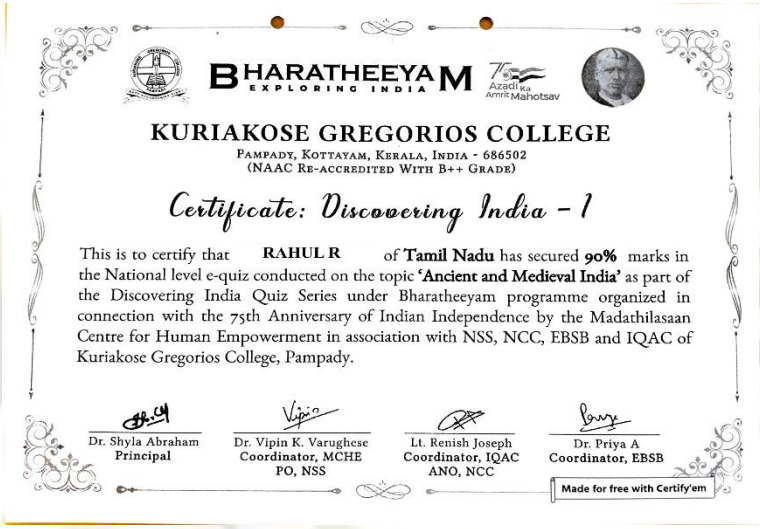

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(NAAC RE-ACCREDITED WITH B++ GRADE)

Certificate: Discovering India - 1

This is to certify that **RAHUL R** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

Dr. Shyla Abraham, Principal | Dr. Vipin K. Varughese, Coordinator, MCHE PO, NSS | Lt. Renish Joseph, Coordinator, IQAC ANO, NCC | Dr. Priya A, Coordinator, EBSB

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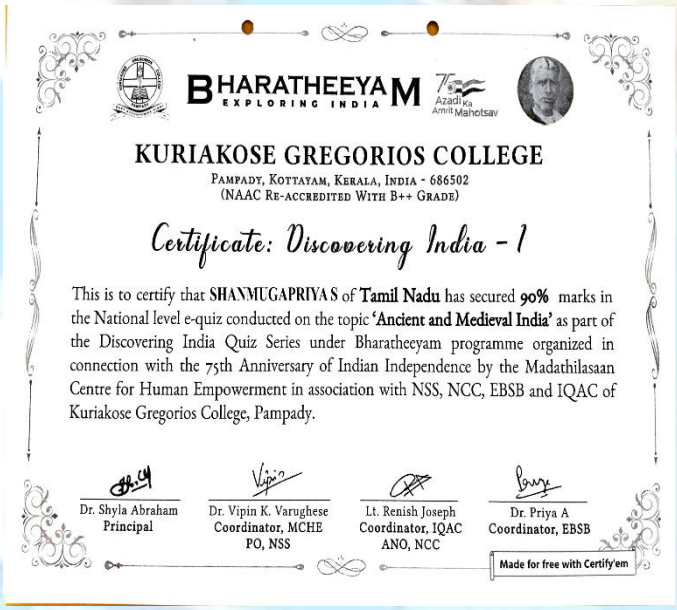

BHARATHEEYAM EXPLORING INDIA 75 Azadi Ka Amrit Mahotsav

KURIAKOSE GREGORIOS COLLEGE
PAMPADY, KOTTAYAM, KERALA, INDIA - 686502
(NAAC RE-ACCREDITED WITH B++ GRADE)

Certificate: Discovering India - 1

This is to certify that **SHANMUGAPRIYA S** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

Dr. Shyla Abraham, Principal | Dr. Vipin K. Varughese, Coordinator, MCHE PO, NSS | Lt. Renish Joseph, Coordinator, IQAC ANO, NCC | Dr. Priya A, Coordinator, EBSB

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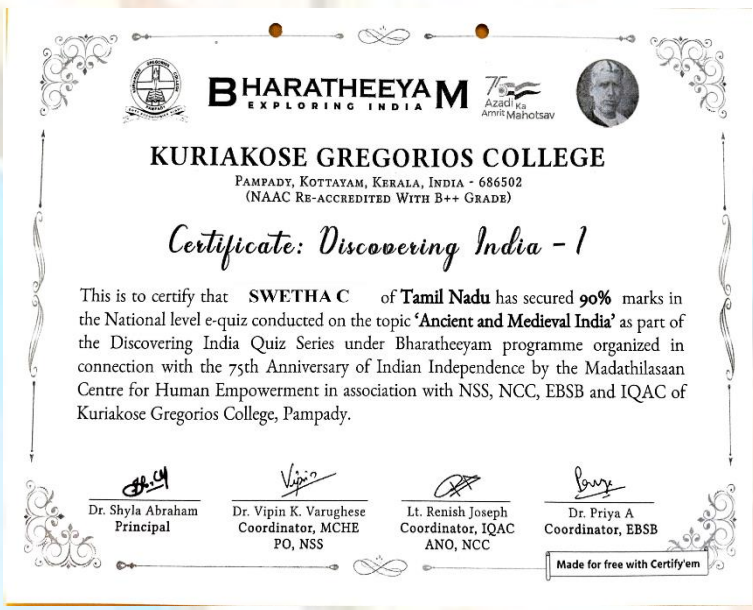

BHARATHEEYAM EXPLORING INDIA 75 Azadi Ka Amrit Mahotsav

KURIAKOSE GREGORIOS COLLEGE
PAMPADY, KOTTAYAM, KERALA, INDIA - 686502
(NAAC RE-ACCREDITED WITH B++ GRADE)

Certificate: Discovering India - 1

This is to certify that **SWETHA C** of **Tamil Nadu** has secured **90%** marks in the National level e-quiz conducted on the topic **'Ancient and Medieval India'** as part of the Discovering India Quiz Series under Bharatheeyam programme organized in connection with the 75th Anniversary of Indian Independence by the Madathilasaan Centre for Human Empowerment in association with NSS, NCC, EBSB and IQAC of Kuriakose Gregorios College, Pampady.

Dr. Shyla Abraham, Principal | Dr. Vipin K. Varughese, Coordinator, MCHE PO, NSS | Lt. Renish Joseph, Coordinator, IQAC ANO, NCC | Dr. Priya A, Coordinator, EBSB

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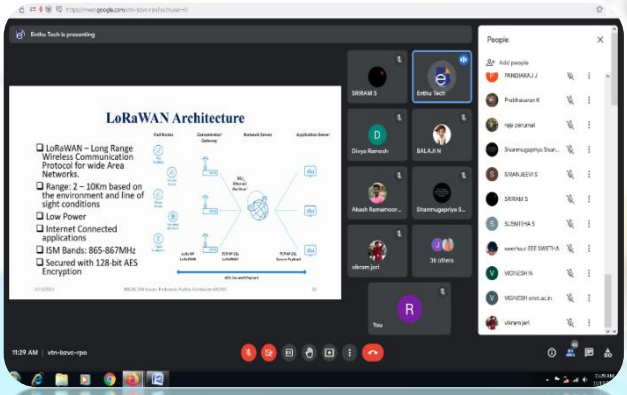
Program Organized :

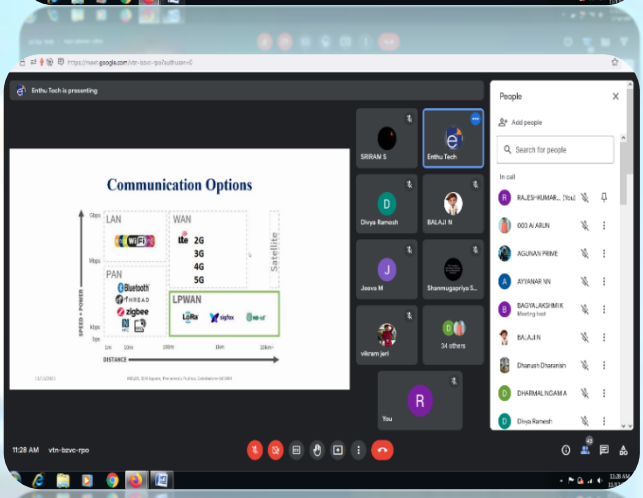
- **Mrs K Bagyalakshmi** organized a **webinar** on **"Career Guidance on Research, Innovations and Higher Studies at Overseas"**
- **Mrs K Bagyalakshmi** organized a **Seminar** on **"Step not, Step on the Stopping stones"**
- **Dr J Maalmarugan** arranged an **alumni talk**
- **Mr D Palanivel** organized **National level webinar** on **"IoT Based Solar Tracking and E-Vehicles Management System"**
- National Level **Webinar** on **"Industrial IoT using LoRaWAN Technology"**organized by **Mrs K Bagyalakshmi**
- **Mrs D Nivea** organized and successfully completed **34 Hours Add-on course on "Ideas behind Innovative Products and Its Designing"**
- **Department of EEE organized EMEER Association Valedictory and Farewell day**

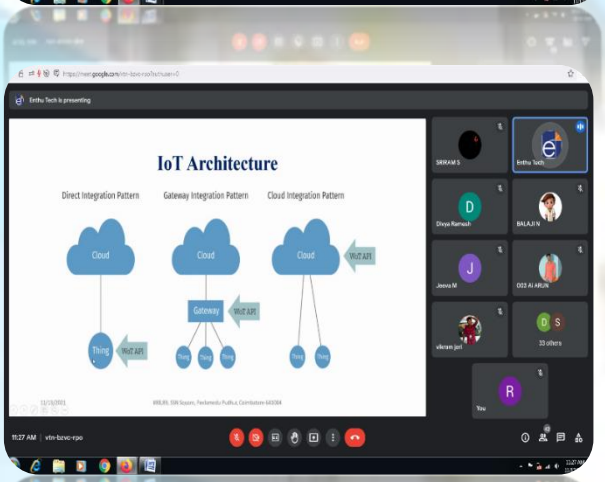

OPPO F11 - @hoxbol athiban


Coimbatore, Tamil Nadu, India
Main Building, Tamil Nadu 641022, India
Lat 11.128933°
Long 76.986234°
15/09/21 02:19 PM
Google


LoRaWAN Architecture
LoRaWAN – Long Range Wireless Communication Protocol for wide Area Networks.
Range: 2 – 10Km based on the environment and line of sight conditions
Low Power
Internet Connected applications
ISM Bands: 865-867MHz
Secured with 128-bit AES Encryption


Industrial Tracking in Mines


Communication Options
LAN
WAN
PAN
LPWAN
Satellite
2G
3G
4G
5G


IoT Architecture
Direct Integration Pattern
Gateway Integration Pattern
Cloud Integration Pattern
Cloud
Gateway
Thing
YIoT API


You are cordially invited to join our
'EmEEr'
Association Valedictory & Farewell Day
to our DEAR STUDENTS
FACULTY OF EEE


SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Electrical and Electronics Engineering
You are cordially invited to join our

Program Organized :

- **Dr.J.Maalmarugan Prof/Head EEE and Mr D Palanivel AP/EEE** has published an **international journal** titled on **"Optimal Path Routing using Fuzzy Logic in Wireless Sensor Networks"**

  Journal Name: **International Journal of Creative Research Thoughts (IJCRT) Volume 9,** Indexed by**: UGC on July-2021.**

- **Mrs K Bagyalakshmi AP/EEE** has published an **international journal** titled on **"Image-Based Plant Diseases Detection using Deep Learning"**

  Journal Name: **Materials Today-Proceedings,** Indexed by**: Elsevier, Scopus on August-2021.**

- **Dr.J.Maalmarugan Prof/Head EEE** has published an **international journal** titled on **"Growth, characterizations, and the structural elucidation of diethyl-2-(3-oxoiso-1,3-dihydrobenzofuran-1-ylidene) malonate crystalline specimen for dielectric and electronic filters, thermal, optical, mechanical, and biomedical applications using conventional experimental and theoretical practices"**

  Journal Name: **Journal of Mater Science: Mater electron,** Indexed by**: Springer US Scopus, UGC AU.Annex.1 on August-2021.**

- **Dr.J.Maalmarugan Prof/Head EEE and Mrs K Bagyalakshmi AP/EEE** has published an **international journal** titled on **"Effect of Metal (Cu, Mn) Doping on the Structural, Morphological, Optical, Photoluminescence, Electrical and Photocatalytic Properties of In2s3Nanoparticles"**

  Journal Name: Research Square

- **Dr.J.Maalmarugan Prof/Head EEE** has published an **international journal** titled on **"Synthesis, experimental and computational characterizations of 8,9-dimethoxybenzo [b] naphtho [2,3-d] thiophene (DBNT) crystals for electro-mechano utilities"**

  Journal Name: **Inorganic Chemistry Communications**

  https://doi.org/10.1016/j.inoche.2022.109249

  Received 6 October 2021; Received in revised form 13 January 2022; Accepted 21 January 2022

  Available online 3 February 2022

  Indexed by **Elsevier B.V**

- **Dr.J.Maalmarugan Prof/Head EEE** has published an **international journal** titled on **"In situ grown ZnO nanoparticles using Begonia leaves–dielectric, magnetic, filter utility and tribological properties for mechano-electronic applications"**

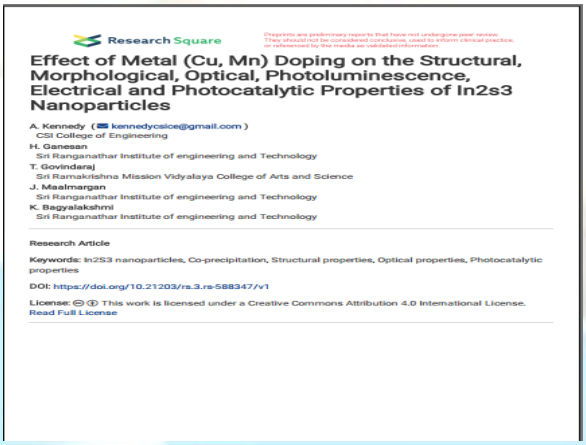
  Journal Name: **Applied Physics A material science and processing**

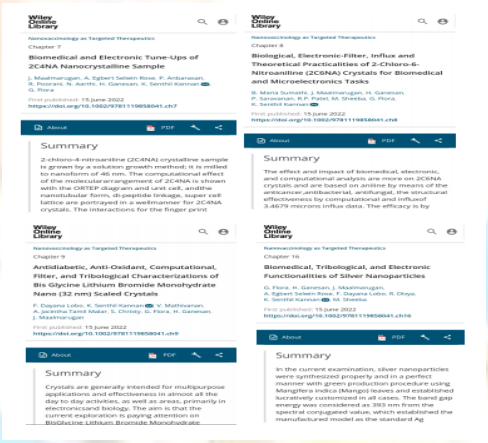
  (2022) 128:217

  https://doi.org/10.1007/s00339-022-05371-w

  3 February 2022

  Indexed by **Springer-Verlag GmbH**





Conference Presented (National/International):

- **Mrs K.Bagyalakshmi** presented a paper titled on **"IoT Based Garbage Monitoring and Street light Control"** in **5th National Conference on clean and green energy by virtual mode**
- **Mrs M Shanthi** presented a paper titled on **"Nonlinear Speed Control for a Permanent Magnet Synchronous Generator using Buck Boost Converter"**
- **Mr K.Muthuraj** presented a paper titled on **"PROTECTION OF OVER VOLTAGE AND UNDER VOLTAGE BY USING AURDINO FOR HOME APPLIANCES"**
- **Mr.D.Palanivel** presented a paper titled on **"IoT Based Smart Land Survey System using Drone"**

FDP/STTP/Seminar/workshops:

- **Mr Muthuraj K** participated in **Webinar series on "Research Avenues in Microwave Technologies"**
- **Mr.P.Meenakshi Sundaram** participated in **Three days FDP on "Digital Tool for Active Teaching Evaluation and Research"**
- **Mrs M Shanthi** attended **one-week STTP** on **"FPGA based Digital System Design with HDL"**
- **Mr Alex George** participated in **national level Workshop** on **"Control and Applications in Robotics"**
- **Mr Alex George** participated in **FDP** on **"Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal"**
- **Mr.P.Meenakshi Sundaram** attended **two weeks FDP** on **"Chronic Stress Management During Pandemic"**
- **Mr Alex George** participated in **FDP** on **"Formal Verification of Digital Design"**
- **Mr.P.Meenakshi Sundaram** participated in **Live Tech Talk** with a cup of Tea on **"Vehicle Electrification: Challenges and Opportunities"**
- **Mrs.M.Malathi** attended **FDP** on **"Recent Trends in Electric Vehicles"**
- **Mr.P.Meenakshi Sundaram** attended **Six-Days FDP** on **"POWER ELECTRONICS"**
- **Mr.D.Palanivel** attended **Six-Days FDP** on **"POWER ELECTRONICS"**
- **Mr Muthuraj K** attended **Six-Days FDP** on **"POWER ELECTRONICS"**
- **Mrs.M.Malathi** participated in **two weeks FDP on "Design and Operational Perspective of Electric Vehicle with Distributed Energy Resources using Cyber Physical System**"
- **Mr Alex George** participated in **Six-Days online STTP on "Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid"**
- **Mr Alex George** attended **Webinar on "New Education Policy (NEP) 2020: Quality, Accreditation and Teacher Development"**
- **Dr.J.Maalmarugan** participated in **one-week National Level Online FDP** on **"Recent Trends in Electrical Engineering"**
- **Mr.K.Rajeshkumar** participated in **one-week National Level Online FDP** on **"Recent Trends in Electrical Engineering"**
- **Mrs.M.Malathi** participated in **one-week National Level Online FDP** on **"Recent Trends in Electrical Engineering"**
- **Mr Alex George** participated and completed the **3-day virtual Training of Trainers (TOT)** program on **"Solar Business Development and Energy Efficiency"**
- **Mr D Palanivel** successfully completed **Orientation/Refresher** program **on "Next Generation computing and its Application"**
- **Mr Alex George** successfully completed **Orientation/Refresher** program **on "Solar Energy in the Present Era"**
- **Mr D Palanivel** successfully completed **Orientation/Refresher program** on "**Challenges and Opportunities in Electric Vehicle Technology**"
- **Mr Alex George** participated and scored 80% in the Online **Quiz series-13** on **"Energy Management and Auditing"**
- **Mrs M.Malathi** participated and completed the **3-day virtual Training of Trainers (TOT)** program on **"Solar Business Development and Energy Efficiency"**


Sairam Institutions

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Sri SAI RAM INSTITUTE OF TECHNOLOGY
An Autonomous Institution
West Tambaram, Chennai - 44
www.sairamit.edu.in

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. SHANTHI M, AP/EEE SRI RANGANATHAR INSTITUTE OF ENGG & TECH has attended in the ISTE Sponsored One Week Faculty Development Programme on

"Research Opportunities in Artificial Intelligence & Machine Learning"

held from 16.12.2021 to 22.12.2021.

Ms R Janaki, Co-ordinator | Dr. G. Thamarai Selvi, HoD/ECE | Dr. K. Palanikumar, Principal | Sai Prakash LeoMuthu, Chairman & CEO Sairam Institutions

Sairam RAISE | Sairam EDMS


SHREENIVASA ENGINEERING COLLEGE
(Approved by AICTE affiliated to and Anna University)
B. Pallipatti, Bommidi, pappireddipatti (Tk), Dharmapuri (Dt), TamilNadu-635 301

ORGANIZED BY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that **M MALATHI** of **SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY** has participated in the webinar on **"REAL TIME PYTHON"** held on 01/12/2021.

Principal | Chairman


The Institution of Engineers (India)
8 Gokhale Road, Kolkata - 700020, West Bengal, India
(Established in 1920, Incorporated by Royal Charter 1935)
A Scientific and Industrial Research Organisation

Certificate of Participation

This is to certify that

Nivea D

has participated in the IEI Technical Webinar on the theme

DEVELOPMENT OF LITHIUM ION BATTERY /SODIUM ION BATTERIES FOR COMMERCIAL APPLICATIONS

organized by Durgapur Local Centre of The Institution of Engineers (India) under the aegis of Chemical Engineering Division on 23/06/2022 from 15:00 hr to 18:00 hr.

Maj Gen MJS Syali, VSM (Retd.)
Secretary & Director General

This is an approved CPD programme of The Institution of Engineers (India)


GALGOTIAS UNIVERSITY

Certificate of Participation

SHANTHI M

ASSISTANT PROFESSOR, SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY

Has attended 5 Days Global E-FDP on "Unleashing Research Potential: Global Trends and Practices" Organised by Office of International Relations, Galgotias University, Greater Noida, Uttar Pradesh held from March 7-11, 2022.

Prof. (Dr.) B. Balamurugan
Director, International Collaboration

Prof. (Dr.) Anamika Pandey
School of Business

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AICTE | ISTE

Certificate

This is to certify that ***ALEX GEORGE*** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"Solar Energy in the Present Era"*** held during **24.12.2021** to **31.12.2021** organized by ***Bhilai Institute of Technology, Durg, Chhattisgarh.***

Director (FDC) AICTE, ND | Executive Secretary ISTE, ND | Program Coordinator BIT, Durg | Principal BIT, Durg

Funding Proposals:

- **Dr.J.Maalmarugan** submitted a project proposal **on IoT Based Smart Traffic Control System for Ambulance** to **TNSCST**
- **Mr. Alex George** submitted a project proposal on **Development of Three Phase Rotating Magnetic Field for Delta Connected Motor** to **TNSCST**
- **Mrs K.Bagyalakshmi** submitted a project proposal on **Design and Implementation of smart Navigation System for Visually Impaired People using Iot**
- **Mr.P.Meenakshi Sundaram** submitted a project proposal on **Protection of Over Voltage and Under Voltage Using Arduino for Home Appliances**
- **Mr.D.Palanivel** submitted a project proposal on **IoT Based Smart Health Monitoring, Mask Scan Entry and Social Distancing System for COVID-19 Prevention**
- **Mrs M.Malathi** submitted a project proposal on **IoT Based Smart Grid Using Renewable Energy System**
- **Mr K.Muthuraj** submitted a project proposal on **Voltage Fluctuation Controller for Home Applications using Arduino and GSM** to **TNSCST**
- **Mrs K.Bagyalakshmi** submitted a proposal titled in **"SOLAR POWERED DEVICE TO DESTROY INSECTS"** to **Unnat Bharat Abiyan**

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Student Project Proposal Titled

VOLTAGE FLUCTUATION CONTROLLER FOR DOMESTIC APPLICATIONS USING ARDUINO AND GSM

Submitted by

KARMUGILAN P	Reg.No.713918105017
NANDHINI D	Reg.No.713918105023
ULAGANATHAN V	Reg.No.713918105037

Under the guidance of

Mr K MUTHURAJ M.E.,
Assistant Professor

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
(An ISO 9001:2015 Certified Institution)

Interaction with outside world :

- **Mrs K.Bagyalakshmi** delivered a **Guest Lecturer** on **"Introduction to Arduino"**
- **Dr.J.Maalmarugan** act as a **Reviewer at Journal of Circuits, Systems, and Computers in the journal name of Wei Wang Handling Editor**
- **Mr.P.Meenakshi Sundaram delivered a Guest Lecturer on "Importance of Higher Education"**
- **Mr K Muthuraj delivered a guest lecturer in FDP on "Future in Technical Power Electronics"**

Technical Message:

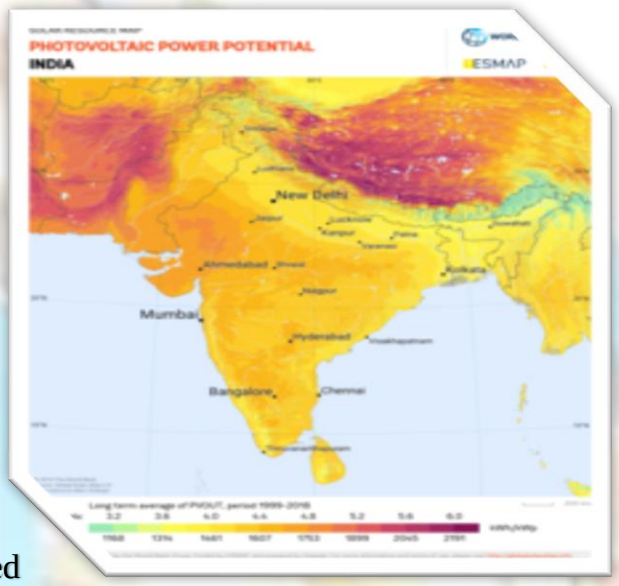
James Clerk Maxwell (13 June 1831 – 5 November 1879) was a Scottish mathematician and scientist responsible for the **classical theory of electromagnetic radiation**, which was the first theory to describe electricity, magnetism and light as different manifestations of the same phenomenon. **Maxwell's equations** for electromagnetism have been called the **"second great unification in physics"** where the first one had been realised by Isaac Newton.

With the publication of **"A Dynamical Theory of the Electromagnetic Field"** in 1865, Maxwell demonstrated that electric and magnetic fields travel through space as waves moving at the speed of light. He proposed that light is an undulation in the same medium that is the cause of electric and magnetic phenomena. The unification of light and electrical phenomena led his prediction of the existence of radio waves. **Maxwell** is also regarded as a founder of the **modern field of electrical engineering.**

Solar power in India:

Solar power is a **fast-developing industry** in India. The country's solar installed capacity was **63.303 GWAC**. Solar power generation in **India ranks fourth globally in 2021**.

The Indian Government had an initial target of 20 GW capacity for 2022, which was achieved four years ahead of schedule. In 2015 the target was raised to 100 GW of solar capacity (including 40 GW from rooftop solar) by 2022, targeting an investment of US$100 billion. India has established nearly 42 solar parks to make land available to the promoters of solar plants.



Rooftop solar power accounts for 2.1 GW in 2018, of which **70% is industrial** or commercial. In addition to its large-scale grid-connected solar photovoltaic (PV) initiative, India is developing off-grid solar power for local energy needs. Solar products have increasingly helped to meet rural needs; by the end of 2015 just under one million solar lanterns were sold in the country, reducing the need for kerosene. That year, **118,700 solar home lighting systems** were installed and **46,655 solar street lighting installations** were provided under a national programme; just over 1.4 million (1.4 million) solar cookers were distributed in India.

The International Solar Alliance (ISA), proposed by India as a founder member, is headquartered in India. India has also put forward the concept of **"One Sun One World One Grid"** and **"World Solar Bank"** to harness abundant solar power on global scale.