



**NANDHA
ENGINEERING COLLEGE
(AUTONOMOUS)
ERODE -52,
TAMILNADU**

**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

ORGANIZE

**ACADEMIC SEMINAR ON
SMART GRID**

**MRS.P.VIJAYAPRIYA
PROFESSOR / EEE
VELLORE INSTITUTE OF
TECHNOLOGY
VELLORE**

EVENT DATE

10-10-2021

EVENT TIME

10.00 AM

Mr.V.Ravichandran

Dr.G.Ramani

Event Coordinator

HoD / EEE



Dr.N.Rengarajan
Principal

*Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,
PRINCIPAL
NANDHA ENGINEERING COLLEGE
(Autonomous)
ERODE - 638 052.*

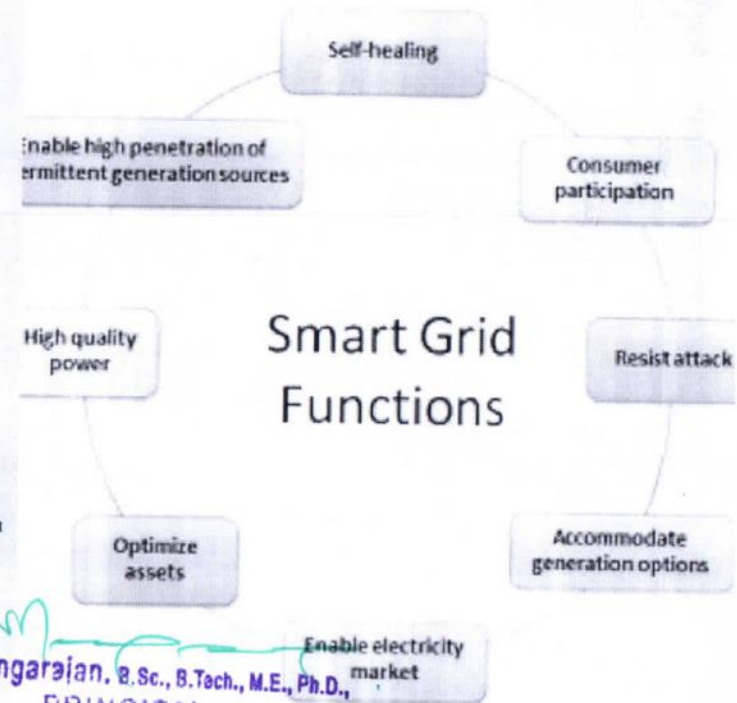
ACADEMIC SEMINAR ON SMART GRID

CHIEF GUEST
MRS.P.VIJAYAPRIYA
 PROFESSOR / EEE
 VELLORE INSTITUTE OF TECHNOLOGY
 VELLORE

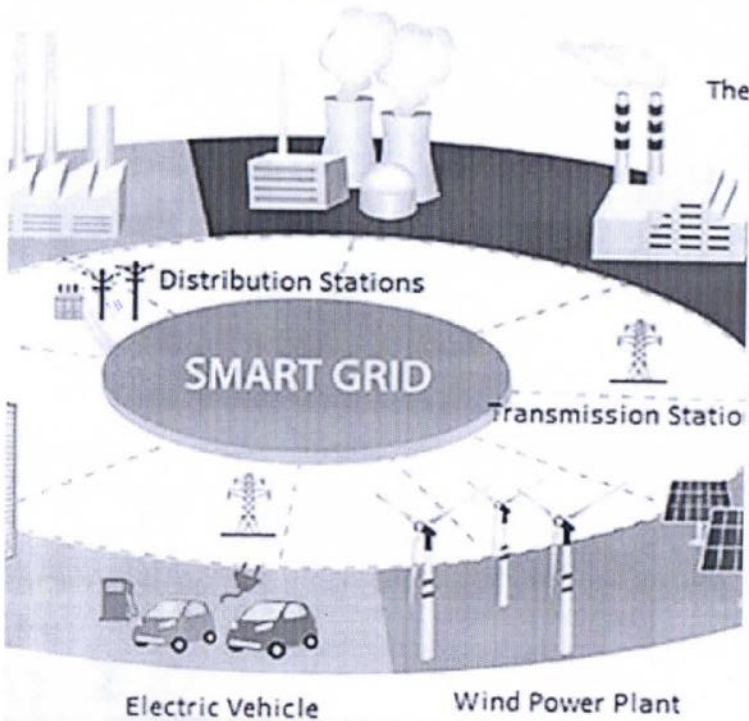


NANDHA ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ERODE - 638 052



Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,
 PRINCIPAL
 NANDHA ENGINEERING COLLEGE
 (Autonomous)
 ERODE - 638 052.



DATE & TIME
10.10.2021
 &
10.00 AM

VENUE
NEC CONFERENCE HALL





NANDHA ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE-52

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC SEMINAR

On

"SMART GRID"

SESSION SCHEDULE

DATE: 10/10/2021

PROGRAMME		TIMING	
Registration		09.00 AM to 9.30 AM	
Inaugural		10.00 AM to 10.30 AM	
TEA BREAK- 10.30 AM to 10.45 AM			
SESSION-I			
NAME OF THE RESOURCE PERSON		TIMING	TOPIC
Mrs.P.VIJAYAPRIYA PROFESSOR / EEE VELLORE INSTITUTE OF TECHNOLOGY VELLORE		10.45 AM to 12.45 NOON	i) Grid Modernization and the Smart Grid ii) Features of Smart Grid
LUNCH BREAK – 12.45 PM to 01.30 PM			
SESSION – II			
Mrs.P.VIJAYAPRIYA PROFESSOR / EEE VELLORE INSTITUTE OF TECHNOLOGY VELLORE		01.30 Noon to 03.30 PM	Challenges in adoption of Smart Grid
TEA BREAK- 03.30 PM to 03.40 PM			
FEEDBACK SESSION		03.40 PM to 03.50 PM	
Valedictory		03.50 PM to 04.00 PM	

Venue : Conference Hall



Dr. N. Rengarajan
Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,
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EVENT REPORT
ACADEMIC SEMINAR - SMART GRID (10.10.2021)

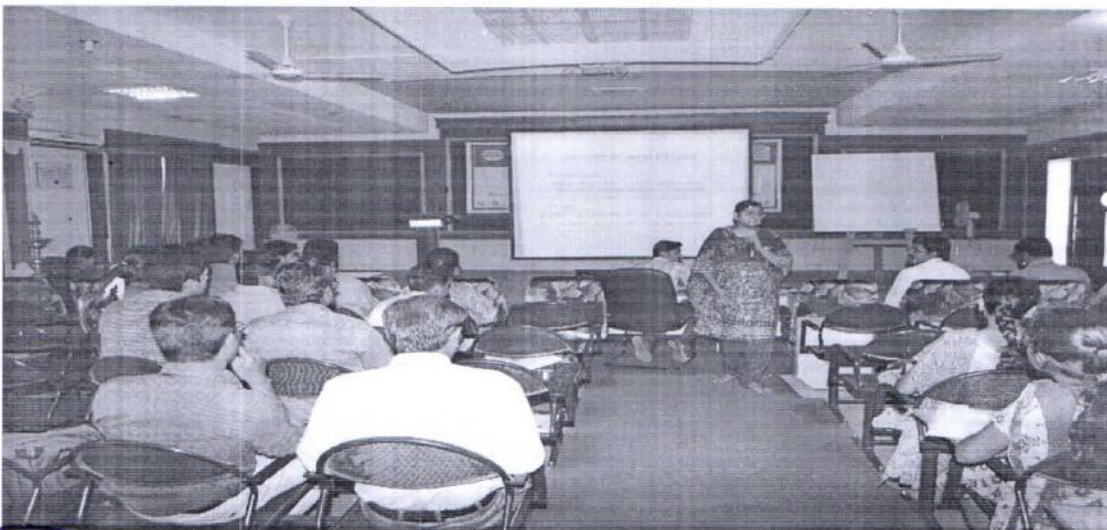
CHIEF GUEST

Mrs.P.VIJAYAPRIYA
PROFESSOR / EEE
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE

ABOUT THE EVENT

The Resource Person delivered the following points:

- Smart grid is a generic label for the application of computer intelligence and networking abilities to a dumb electricity distribution system. Smart grid initiatives seek to improve operations, maintenance and planning by making sure that each component of the electric grid can both 'talk' and 'listen'.
- A smart grid is a holistic solution that employs a broad range of information technology resources, allowing existing and new gridlines to reduce electricity waste and energy costs. ... Plug-in hybrid electric cars will also require a smart grid to allow consumers to charge their vehicles when rates are low.
- Benefits or advantages of Smart Grid:
 - It reduces electricity theft.
 - It reduces electricity losses (transmission, distribution etc.)
 - It reduces electricity cost, meter reading cost, T&M operations and maintenance costs etc.
 - It reduces equipment failures due to automatic operation based on varying load conditions.
- IoT can be used in customer side in smart meters to measure different types of parameters, intelligent power consumption, interoperability between different networks, charging and discharging of electric vehicles, manage energy efficiency and power demand.




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NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

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

ERODE – 638052 TAMILNADU

Email :principal@nandhaengg.org Mobile : 73737 12234

ACADEMIC SEMINAR - SMART GRID

Faculty Participation List

Date: 10.10.2021

S.NO.	NAME OF THE FACULTY	DESIGNATION	NAME OF THE COLLEGE	SIGNATURE
1	Mr. R Murugasami	Professor/ECE	Nandha Engineering College	
2	Mr. E K Arulkarthick	Assistant Professor/ECE	Nandha Engineering College	
3	Mr. P Premkumar	Assistant Professor/ECE	Nandha Engineering College	
4	Ms. R Monica	Assistant Professor/ECE	Nandha Engineering College	
5	Mr. V S Sathishkumar	Assistant Professor/ECE	Nandha Engineering College	
6	Dr M Muthukumar	Professor/MECH	Nandha Engineering College	
7	Mr. V Chandramohan	Professor/MECH	Nandha Engineering College	
8	Mr. M Sengottaiyan	Assistant Professor/MECH	Nandha Engineering College	
9	Mr. R Rajkumar	Assistant Professor/MECH	Nandha Engineering College	
10	Dr N Prabhu	Associate Professor/Physics	Nandha Engineering College	



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ACADEMIC SEMINAR - SMART GRID

11	Dr.Satheesh A	Professor/EEE	NANDHA ENGG. COLLEGE	
12	Dr.G.Ramani	Professor/EEE	NANDHA ENGG. COLLEGE	
13	Mr.Prabhakaran S	Associate Professor/EEE	NANDHA ENGG. COLLEGE	
14	Ms.P.Sapthika Parthi	Assistant Professor/EEE	NANDHA ENGG. COLLEGE	
15	Mr.G Asokkumar	Assistant Professor/EEE	NANDHA ENGG. COLLEGE	



Dr.N.Rengargan B.Sc., B.Tech., M.E., Ph.D.,
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ATTENDANCE CERTIFICATE

This is to certify that the following faculty members of Electrical and Electronics engineering department have attended the academic seminar on "**Smart Grid**" on **10.10.2021** in our college premises.

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Dr.SATHEESH A	PROFESSOR
2.	Dr.G.RAMANI	PROFESSOR
3.	Mr.PRABHAKARAN S	ASSOCIATE PROFESSOR
4.	Ms.P.SAPTHIKA PARTHI	ASSISTANT PROFESSOR
5.	Mr.G ASOKKUMAR	ASSISTANT PROFESSOR


Co-ordinator


Principal

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Department of Electrical and Electronics Engineering

Seminar Feedback Form

Date: 10.10.2021

Title of the program: ACADEMIC SEMINAR - SMART GRID

Name of the Resource person: Mrs.P.VIJAYAPRIYA

PROFESSOR / EEE

VELLORE INSTITUTE OF TECHNOLOGY


VELLORE

Date of the event: 10.10.2021

1. Name of the Faculty: P. Sathya Parthi
2. Designation & Department: AP / EEE
3. Internal or External (if External: Mention college name):
4. Please respond to the following statements:

	Excellent	Very Good	Good	Fair	Poor
a. Seminar/workshop objectives were met		✓			
b. Overall arrangement / organization of the event.	✓				
c. Information and/or skills presented were relevant and useful	✓				
d. Provided adequate time for questions and answered them satisfactorily		✓			
e. Opinion about the speaker	✓				
f. Suggestions if any:					




Dr. N. Rengarajan, B.Sc., B.Tech., M.E., Ph.D., Signature of the Participant
PRINCIPAL
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Department of Electrical and Electronics Engineering

Seminar Feedback Form

Date: 10.10.2021

Title of the program: ACADEMIC SEMINAR - SMART GRID
Name of the Resource person: Mrs.P.VIJAYAPRIYA
PROFESSOR / EEE
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE
Date of the event: 10.10.2021

1. Name of the Faculty: R. Monica
2. Designation & Department: Assistant Professor / ECE
3. Internal or External (if External: Mention college name): NEC
4. Please respond to the following statements

	Excellent	Very Good	Good	Fair	Poor
a. Seminar/workshop objectives were met	✓				
b. Overall arrangement / organization of the event.	✓				
c. Information and/or skills presented were relevant and useful		✓			
d. Provided adequate time for questions and answered them satisfactorily		✓			
e. Opinion about the speaker	✓				
f. Suggestions if any:					



Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,
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Signature of the Participant
10/10/21



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Human Resource Development Group

CSIR Complex, Library Avenue, Pusa, New Delhi 110 012

Tel : 011 2584 1037

Email: symposia.travel@gmail.com , web <http://csirhrdg.res.in>

Hemant Kulkarni
Senior Principal Scientist

Ref No. SYM/10687/21-HRD
November 25, 2021

Dr T Jayakumar
Associate Professor, Dept. of EEE
Nandha Engineering College
Perundurai, Erode District - 638 052 Tamil Nadu

SUBJECT: Emerging Advancements in Battery Technology For Future Electric Vehicle Applications during Dec 21-21,2021 at Nandha Engineering College, Erode

Dear Dr Jayakumar

With reference to your application on the above subject, we are happy to inform you that Director General, CSIR has been pleased to sanction a grant of Rs.20000/- (Rupees Twenty Thousand Only) subject to the following conditions:

1. The grant received from CSIR should be duly acknowledged by email along with a certificate that the grant would be specifically utilized for the purpose for which it has been sanctioned.
2. The grant may be reimbursed within four months from the date of Conference/Seminar/Workshop etc. is over by filling-in the Grant-in-Aid Bill Form in duplicate duly signed and rubber stamped by the concerned officials, indicating clearly the designation of the official along with Audited Statement of Expenditure for release of grant. Current Proforma for Grant-in-aid bill, Audited Statement of Expenditure and NEFT are available on our website <http://csirhrdg.res.in/Home/Index/1/InPage/53/14>. If any Utilization Certificates of Previous Grant for symposia (as per Col.No. 15 of the Application Performa) is not submitted till date, please attach copies of Utilization Certificates also. Any claim received beyond 4 months will be entertained only in exceptional cases subject to submission of reasons for delay, duly forwarded through Head of the Organization. In no case, the claim will be entertained after 6 months. All the pages of above documents should be self attested by the organizer.
3. Invitation cards should be sent to the Director General, CSIR and Head, HRDG. CSIR may nominate three scientists for the above event and registration fee should not be charged from them. In case of nomination, the Head, HRDG or the undersigned would issue a letter with a copy to the nominee(s).
4. Softcopy (preferably in Pen Drive/CD/ DVD in PDF format) of the full paper proceedings of above event should be sent to the undersigned.
5. An overall activity report by the Convener / Organizing Secretary should be made available by email to us with regard to outcome of the gathering, the recommendations and plan of action for future. The names, addresses & email IDs of the participants / delegates should also be sent immediately after the event by email.

Yours sincerely,

(Hemant Kulkarni)

Copy to: Audit (EMR) HRDG



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Nandha Engineering College, Erode-52 (Autonomous)



Department of Electrical and Electronics Engineering
organizes

One Day National Level Seminar on EMERGING ADVANCEMENTS IN BATTERY TECHNOLOGY FOR FUTURE ELECTRIC VEHICLE APPLICATIONS

Sponsored by



Council of Scientific and Industrial Research (CSIR)

*The Management, Principal, Staff and Students Cordially invite you for
the Function*

to be held on 21st December 2021 at 9.30 a.m. in NEC Placement Auditorium

Thiru. V. Shanmugan

Chairman, Sri Nandha Educational Trust

will preside over the function

Dr. M. Mohanraj

Associate Professor

Department of Electrical and Electronics,
Kumaraguru College Technology Coimbatore, Tamilnadu

will consented to be the Chief Guest

Dr. S. Arumugam

CEO, Nandha Educational Institutions

Mr. S. Nandhakumar Pradeep

Secretary, Sri Nandha Educational Trust

Mr. S. Thirumoorthi

Secretary, Nandha Educational Institutions

Dr. J. Senthil

Director, Nandha Tech Campus

will Felicitate the function

Dr. N. Rengarajan

Principal, Nandha Engineering College

will welcome the gathering

Co-ordinators

Dr. T. Jayakumar, B. Ramraj

Convener

Dr. G. Ramani



Dr. N. Rengarajan
**Dr. N. Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,
PRINCIPAL
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ERODE - 638 052.**

DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the Coordinator in case I am unable to attend the course.

Place:

Date:

Signature of the Applicant

SPONSORSHIP CERTIFICATE

Mr/Ms/Dr _____

is an employee of our Institute / Organization and is hereby sponsored. He/She will be permitted to attend the programme in full, if selected.

Place:

Signature of the Sponsoring Authority

Date:

Office Seal

Application form completed in all respects is to be sent to:

Dr.T.Jayakumar

Associate Professor / EEE

Chairperson:

**CSIR Sponsored One Day
National Level Seminar On**

**“EMERGING ADVANCEMENTS IN BATTERY
TECHNOLOGY FOR FUTURE ELECTRIC
VEHICLE APPLICATIONS”**

Department of EEE

Nandha Engineering College

Perundurai Erode-638 052 Tamilnadu

Contact Mobile -9788442488, 9488872020

E-mail: jayakumar.t@nandhaengg.org,

jaineceee@gmail.com

Website: www.nandhaengg.org



ABOUT THE COLLEGE

Nandha Educational Trust was promoted by Thiru V.Shanmugan, chairman cum managing trustee in 1992 with a vision to serve and lead the society by imparting quality value based education as the mission. Nandha Engineering College was started in 2001 and is affiliated to the Anna University. The college is located in a serene atmosphere at a distance of 13 km from Erode.

The college has state-of-the-art infrastructural facilities and offers 10 undergraduate, 07 postgraduate in various disciplines of Engineering and Technology and approved research centre for PhD Programs.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was started in the year 2002 and presently it offers under graduate program in Electrical and Electronics Engineering.

The Department has qualified faculty members with excellent academic records. The Department is equipped with excellent laboratory facilities since its inspection.

Electrical Engineering department has a separate department library to cater to the specific needs of the Electrical Engineering students. The computer and internet facilities are made available to the students round the clock. The department has initiated conducting National Conference, Technical Symposium, Inter/Intra department Activities, Funding agencies Sponsored Workshops and Seminars.

ABOUT THE LOCATION

The college is situated at Perundurai on the National Highway (NH 47) about 80 km from Coimbatore and 13 km from Erode.



**CSIR Sponsored
One Day
National Seminar
On**



**“EMERGING ADVANCEMENTS IN BATTERY
TECHNOLOGY FOR FUTURE ELECTRIC
VEHICLE APPLICATIONS”
(21.12.2021)**

**Organizing Committee by
Chairpersons:**

Dr.T.Jayakumar Ph.D.,
Associate Professor / EEE

Dr.G.Ramani M.E., Ph.D.,
Professor/EEE

Organizing Secretary:

Mr.B.Ramraj M.E.,
Associate Professor/EEE

Organized by

Department of Electrical and Electronics
Engg.
Nandha Engineering College
Perundurai – 638 052, Erode, TamilNadu

Tel: 04294-226538

Fax: 04294-220087

E-mail: jaineceee@gmail.com,

Jayakumar.t@nandhaengg.org

Website: www.nandhaengg.org



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OBJECTIVE:

The technology development of the traction batteries has a great impact on EV industry, since the traction batteries are used to power the propulsion system of EV. Once a rechargeable lead-acid battery appeared, it was applied to an EV. With the development of battery technology, an increasing number of different types of power batteries have appeared in the battery market. Despite the new technology of the battery, the requirements for the traction battery have not significantly changed. Differently from starting, lighting, and ignition batteries, EV batteries need to provide continuous power. Thus, a higher energy capacity is highly important. Moreover, high specific power, high specific energy, and high energy density are crucial. At present, the types of rechargeable batteries that are used in EVs mainly include lead-acid batteries, nickel-metal hydride (Ni-MH) batteries, and lithium-ion batteries. The batteries of EVs can be considered either as loads or as a distributed energy and power resource in V2G. A V2G-capable vehicle offers various features, such as regulated active power, provision for reactive power, load smoothing, and elimination of current harmonics. The cost of V2G includes battery degradation, a communication fee between the EV and the grid, impacts on grid distribution equipment, and infrastructure changes. Study shows that economic profits of V2G technologies have received increased attention from grid operators and EV owners, and are heavily related to the strategies of charging and vehicle aggregation. This seminar explains the recent advancements in Li-ion battery and provides the main features for future electric vehicle applications.

COURSE CONTENTS:

- Design, Integration and Prototyping of Li-Ion Batteries and Packs for Energy Storage, EVs and Consumer applications.
- Emerging advancements in Electrical Vehicles (Hybrid EVs and Battery EVs)
- Recent advancements of battery Technology for Electric vehicle
- Design and Development of Battery Management System



TARGET AUDIENCE

Faculty members working from Engineering, Arts and Polytechnic Colleges, Research scholars, PG Students, Industry Persons from relevant background of Sciences and Engineering.

FACULTY

Sessions will be handled by experienced faculty members from reputed institutions and Experts from Industry Fields.

BOARDING AND LODGING

Accommodation and boarding if required will be provided in the college campus on first-come-first serve basis.

REGISTRATION FEE DETAILS

Registration Fee: Rs.100/- per Participant.

- The course fee includes lunch and refreshment.
- Boarding and Lodging will be provided to all the selected participants in the college campus.
- Registration for the course can be made by sending the duly filled registration form along with a DD for Rs.100/- in favour of "Nandha Engineering College" Payable at Perundurai, or at Erode to the convener. Registration is limited to 50 participants and selected on first-come-first serve basis.

HOW TO APPLY

The applicants should send the filled application and DD to us on or before 15.12.2021.

IMPORTANT DATES

Last Date for receipt of Applications : 15.12.2021
Intimation of Participants : 17.12.2021
Confirmation of Participants : 18.12.2021

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CSIR Sponsored
One day National level Seminar on
"EMERGING ADVANCEMENTS IN BATTERY
TECHNOLOGY FOR FUTURE ELECTRIC
VEHICLE APPLICATIONS"
(21.12.2021)

APPLICATION FORM

Name :
Designation :
Organization :
Gender :
Age :
Educational Qualification:
Address for :
Communication :
Mobile Number :
E-mail ID :
Experience :
Teaching : _____ years
Others (Specify) : _____ years
Need Accommodation : YES / NO
Signature :
DD Details
DD.No. :
Amount :
Date :
Bank Name :

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RESOURCE PERSON PROFILE

CSIR Sponsored One Day National Seminar

On

**“EMERGING ADVANCEMENTS IN BATTERY TECHNOLOGY FOR FUTURE
ELECTRIC VEHICLE APPLICATIONS” (21 Dec 2021)**

Dr.M.Mohanraj,

Assistant Professor, Dept.of EEE, Kumaraguru College of Technology, Coimbatore

Paper Presented in National/International Conference/Journals:

National Conference: 12

International Conference: 16

International Journals:17



Awards Received:

Dr.APJ Abdul kalam award for Teaching excellence- 2017

Narsevai Semmal by Desam media resources (Malaysia) – 2017

KCT Achievers Awards – 6 times

Projects Supervised:

Supervised **20** projects for undergraduate students and **12** postgraduates in the area of Electrical Drives and Power System.

Memberships of professional bodies:

Life member in **ISTE** Chapter & **IET**

Reviewer:

Act as a reviewer in many international journals including Scopus indexed journals.

Sponsored Projects:

Sl.No	Funding Agency	Title of the Project	Amount in Rs.
1.	RuTAG (IITM)	Solar Fan for Rural Applications	Rs.17,000/-
2.	Eco Green Unit [TNAU]	Cone Winder for twisted Dry Banana Fibre	Rs.15,000/-
3.	TWOWIN Exports, Tiruppur	Microcontroller and GSM Based Wind Mill Monitoring System	Rs.25,000/-
4.	Fits Engineering Products Pvt. Ltd. Coimbatore.	High Speed Induction Heater by ZVS method	Rs.20,000/-
9.	STEADFAST VENTURES, Cbe	Design and Fabrication of E-Cargo	Rs.1,50,000/- Completed



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NANDHA ENGINEERING COLLEGE

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PERUNDURAI, ERODE-52

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CSIR Sponsored Seminar

On

“EMERGING ADVANCEMENTS IN BATTERY TECHNOLOGY FOR FUTURE ELECTRIC VEHICLE APPLICATIONS”

SESSION SCHEDULE (DAY 1)

DATE: 21/12/2021



PROGRAMME		TIMING
Registration		08.30 AM to 9.30 AM
Inaugural		9.30 AM to 10.15 AM
TEA BREAK- 10.15 AM to 10.30AM		
SESSION-I		
NAME OF THE RESOURCE PERSON	TIMING	TOPIC
Dr.M.MOHANRAJ , Associate Professor, Dept. of EEE, Kumaraguru College of Technology, Coimbatore	10.30 AM to 12.45 NOON	i) Challenges and Issues in Batteries for E-Vehicle ii) Selection of Batteries and its characteristics
LUNCH BREAK – 12.45 PM to 01.30 PM		
SESSION – II		
Dr.S.ALBERT ALEXANDER , Associate Professor, Dept. of EEE, Kongu Engineering College, Erode	01.30 Noon to 03.45 PM	i) Life of Batteries ii) Advancements in Batteries
TEA BREAK- 03.40 PM to 04.00 PM		
FEEDBACK SESSION		04.00 PM to 04.10 PM
Valedictory		04.10 PM to 04.30 PM

Venue : NEC Conference Hall




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NANDHA ENGINEERING COLLEGE

(Autonomous)

Department of Electrical and Electronics Engineering
CSIR SPONSORED ONE DAY NATIONAL LEVEL SEMINAR



On
Emerging Advancements in Battery Technology for Future Electric Vehicle Applications
(21.12.2021)
Participants List


S.NO	NAME	DEPARTMENT	INSTITUTE / INDUSTRY	E-MAIL ID	MOBILE NUMBER
1	M.KARTHIKEYAN	EIE	KONGU ENGINEERING COLLEGE	karthiacdc@gmail.com	9488152475
2	P.REGA	ECE	ANGEL COLLEGE OF ENGINEERING AND TECHNOLOGY	regaece@gmail.com	9842415109
3	C.GOKUL KUMAR	EEE	NANDHA COLLEGE OF TECHNOLOGY	enggokulkumar@gmail.com	9488076076
4	V.PARAMESHWARI	ECE	NANDHA ENGINEERING COLLEGE	erparam@gmail.com	9965139984
5	Dr.M.MUTHUKUMAR	MECH	NANDHA ENGINEERING COLLEGE	muthukumar.marappan@nandhaengg.org	9865923333
6	P.HEMALATHA	EEE	NANDHA COLLEGE OF TECHNOLOGY	ncthemalatha@gmail.com	9489076076
7	Dr. M. VIJAYAKUMAR	EEE	K. S. R. COLLEGE OF ENGINEERING	vijayakumar1@ksrce.ac.in	9842610588
8	K. S. NANTHINI	EEE	EXCEL ENGINEERING COLLEGE	nanthueee14@gmail.com	9384943055
9	S.PARTHIBAN	EEE	NANDHA COLLEGE OF TECHNOLOGY	parthiba.eee@gmail.com	6382494366
10	M.VIJAYAKUMAR	EEE	K.S.R.COLLEGE OF ENGINEERING	vijayakumar2@ksrce.ac.in	9865860913
11	P.PRUTHIKA	EEE	NANDHA ENGINEERING COLLEGE	preethi11071999@gmail.com	9344946945
12	D.MALATHI	EEE	NANDHA ENGINEERING COLLEGE	janishajani1999@gmail.com	9361336359
13	S.BRINDHA	ECE	NANDHA ENGINEERING COLLEGE	brindha.bliss@gmail.com	8870126418
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**Outcome of Gathering, Recommendations & Plan of Action for
CSIR Sponsored One Day National Level Seminar**

On

**Emerging Advancements in Battery Technology for Future Electric
Vehicle Applications**

(21st December 2021)

Department of Electrical and Electronics Engineering

Nandha Engineering College

OUTCOME OF GATHERING

The technological, academic other benefit generated by conducting this awareness programme with respect to a) the institution, b) the faculty; c) industry / society.

a) The Institution

Distinguished Professors Dr.M.Mohanraj, Dr.S.Albert Alexander, was the resource persons for this Seminar. Their motivational thoughts, real time examples & research ideas will help the institution to improve and concentrate more on the research activities in Battery technology for future Electric Vehicle Applications.

b) The Faculty

The basic concepts and introduction to advancements in battery technology for future electric vehicle applications have been thought to the engineering students of all the branches. At the present scenario, this programme gave a very broader perspective of Electric Vehicle which is an emerging technology with zero pollution. The seminar was very much useful for the faculties to handle the classes especially on E-Vehicles and those who are doing research in the field of battery technology in automotive sector. Fifty participants from various engineering colleges had attended this seminar and benefited.

c) Industry / society

The faculty and students have got knowledge on battery technology for future electric vehicles and other applications. The risk factors of battery life and



Page 1
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its issues are also discussed in the seminar. The institute industry collaboration is planned to establish to promote the awareness about the usage of E-Vehicles for the public. More research on battery technology will also improve the economy of the nation as well as reduce the pollution and it will in turn benefit to the society towards the clean and green environment.

RECOMMENDATIONS AND PLAN OF ACTION FOR FUTURE

- The Seminar was very useful for the research persons working in the field of battery technology for E-Vehicles . This program in turn enhanced the knowledge of faculties, students and research scholars.
- In future the program can be extended for a week. Also with practical exposure and field visit, will uplift the practical knowledge for further improvement in research.

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Department of Electrical and Electronics Engineering



COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)

Certificate of Participation

This is Certify that Dr./Mr./Ms./Mrs. _____ of

_____ has attended the CSIR Sponsored National Level Seminar

on "EMERGING ADVANCEMENTS IN BATTERY TECHNOLOGY FOR FUTURE ELECTRIC VEHICLE APPLICATIONS" on 21st December 2021.



Co-ordinator

HoD

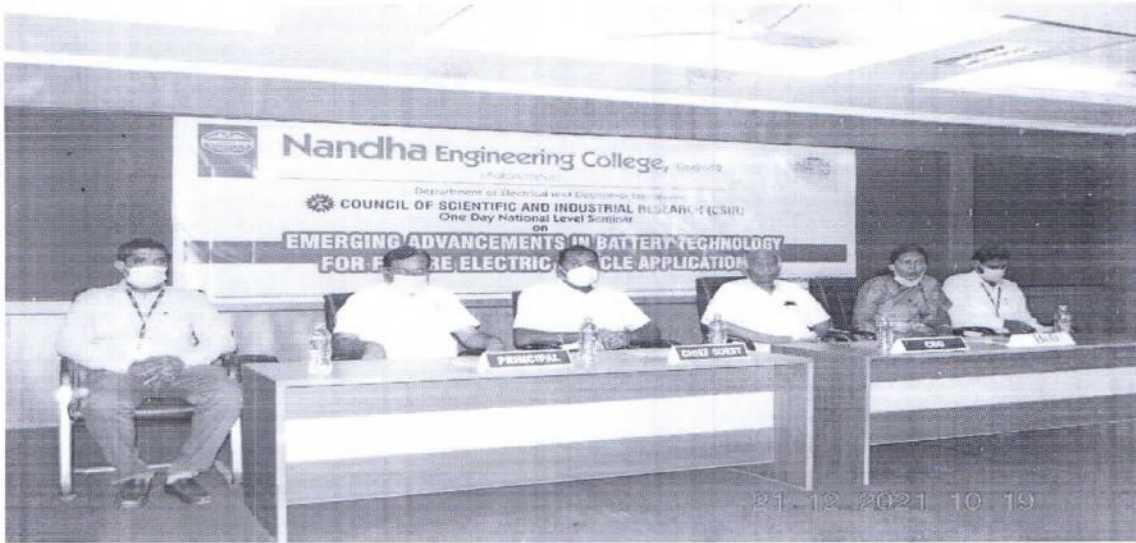
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CSIR Sponsored Seminar

on

**“EMERGING ADVANCEMENTS IN BATTERY TECHNOLOGY FOR FUTURE ELECTRIC
VEHICLE APPLICATIONS”**

21st December 2021

FEEDBACK FORM

Name of the Participant: *S. Mohan Kumar*

SESSION-1, 06/09/2018, FN	SPEAKER-1	A. Presentation	Fair	Good	Very Good	Excellent
		Knowledge of Instructor	-	✓		
Instructors presentation style				✓		
Topics covered by the Instructor				✓		
Instructor responded well to questions				✓		
Instructor interactions with participants				✓		

SESSION-2, 06/09/2018, AN	SPEAKER-2	A. Presentation	Fair	Good	Very Good	Excellent
		Knowledge of Instructor			✓	
Instructors presentation style		✓				
Topics covered by the Instructor				✓		
Instructor responded well to questions					✓	
Instructor interactions with participants					✓	

A. How could this seminar be Improved	-
B. Any other Comments or Suggestions	-

[Signature]
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C. Overall, How would you rate this seminar?

[] POOR

[] FAIR

[] GOOD

[] EXCELLENT





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**“EMERGING ADVANCEMENTS IN BATTERY TECHNOLOGY FOR FUTURE ELECTRIC
VEHICLE APPLICATIONS”**

21st December 2021

FEEDBACK FORM

Name of the Participant: *P. Suganya*

		A. Presentation	Fair	Good	Very Good	Excellent
		SESSION-1, 06/09/2018, FN	SPEAKER-1	Knowledge of Instructor		
		Instructors presentation style			✓	
		Topics covered by the Instructor		✓		
		Instructor responded well to questions		✓		
		Instructor interactions with participants		✓		

		A. Presentation	Fair	Good	Very Good	Excellent
		SESSION-2, 06/09/2018, AN	SPEAKER-2	Knowledge of Instructor		
		Instructors presentation style		✓		
		Topics covered by the Instructor		✓		
		Instructor responded well to questions		✓		
		Instructor interactions with participants	✓			

A. How could this seminar be Improved	—
B. Any other Comments or Suggestions	—

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C. Overall, How would you rate this seminar?

[] POOR [] FAIR [] GOOD

[] EXCELLENT

