



GRIET/6C/G/21-22

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization Address:	GRIET				
Department	EEE	Professional Body		Institutional Body	
		IEEE-EEC			
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Guest Lecture				
Title / Theme of the Event	Latest trends and development in Electrical machines				
Details of the Coordinator & Designation	V Vijaya Rama Raju, Associate Professor.				
Event Dates/Days	From	To	No. of Days		
	16 Sept 2021	16 Sept 2021	01		
Details of the Speaker / Guest Organization Address:	Mr. Sree Venkat , Technical Director(Gyrate-the motor inside).				
Participants (Teaching Faculty / Non-Teaching Faculty / Students) Enclose participants list	No.of Faculty	No. of UG students	No.of PG Students	No.of outside participants	Total Participants
	4	80	0	0	84
Faculty Names & Designation	Dr. J Sridevi, HOD Mr. Phaneendra Babu Mr. V Vijaya Rama Raju Mr. Vinay Kumar A, Associate Professor,				
Summary of the Event	IEEE-EEC has organized a guest lecture on Latest trends and development in Electrical machines . The speaker has given a very deep insight about types of machines, which are available in nowadays, and some of the Advanced Machines and their Efficiencies. He briefly explained about Electrical Engineering Fundamentals that we see in daily life which are interlinked with us. Students have actively				

	participated and got the benefits of the technical talk.
IRG (in rupees) Deposited A/C no A/C name and date and other details	NA
Expenditure (in rupees) (Enclose proof-bills)	3000/- (Rupees Five Thousand only)
POs attained with this Event (number and description)	<p><i>1. Broad education necessary to understand latest trends and development in electrical machines.</i></p> <p><i>2. Recognition of the need for, and an ability to engage in life-long learning.</i></p>
Photographs of the event (Hard copy and Soft copy)	
Proofs: 1.Certificates copies 2.Profile of Speaker 3.PPT/Material as applicable. etc.,	Attached.

Signature of Coordinator

Signature of HOD



GRIET/6C/G/21-22

EVENT SUMMARY REPORT

Griet/Other institutes/Organization Address:	Gokaraju Rangaraju Institute of Engineering and Technology Bachupally, Kukatpally, Hyderabad, Telangana 500090				
Department	Mechanical Engineering & EEE Department	Professional Body		Institutional Body	
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	International Conference				
Title / Theme of the Event	International Conference on Design and Manufacturing aspects for Sustainable Energy				
Details of the Coordinator & Designation	1. Dr. K. Satyanarayana (Convenor) Associate Professor Mechanical Engineering 2. Dr. B.Phaneendra Babu (Convenor) Professor EEE Department				
Event Dates/Days	From	To	No. of Days		
	24-09-2021	26-09-2021	03		
Details of the Speaker / Guest Organization Address:	Dr K Venkateswarlu Senior Principal Scientist CSIR-NAL Bangalore	Dr Iraklis Nikolakakos Senior Researcher Dubai Electricity & Water	Dr Manoj Kumar Gupta (Scientific Officer-G) Institute for Plasma Research, Bhat, Gujarat	Dr Vinod Khadkikar Professor Khalifa University, Abu Dhabi, UAE	
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	80	-	14	20	114

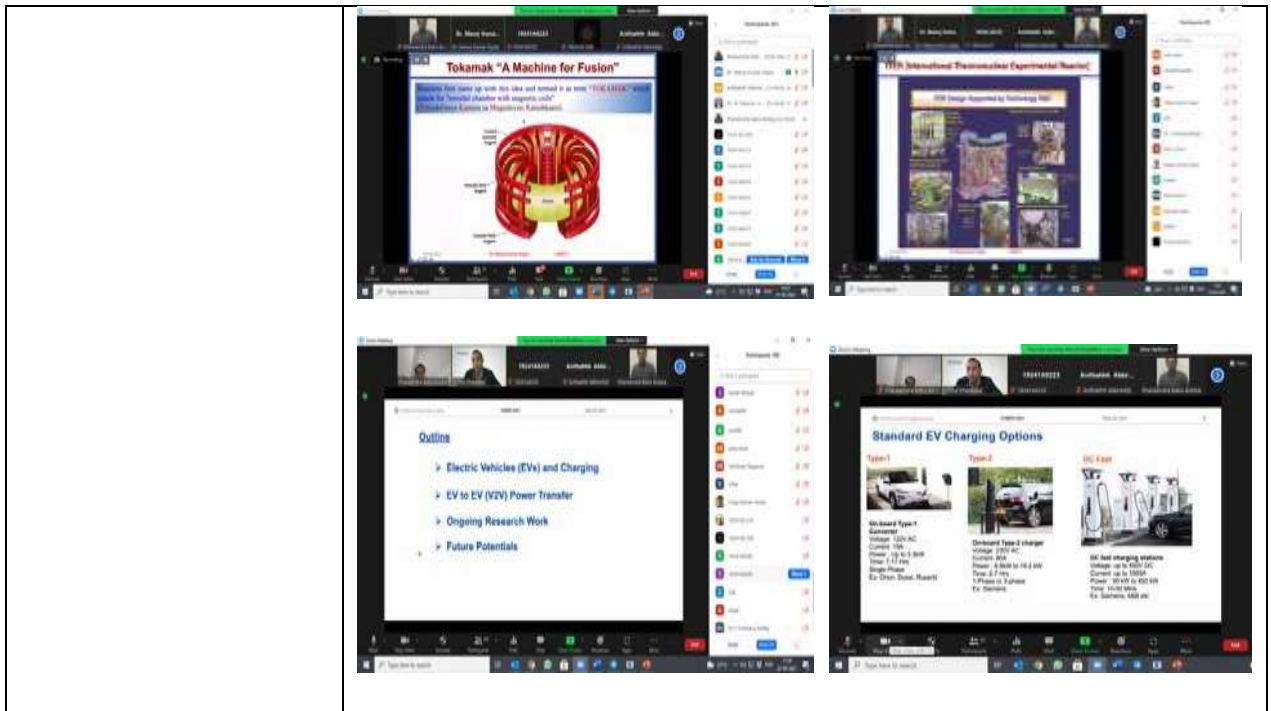
Faculty Names & Designation

Faculty Name	Designation	Faculty Name	Designation
Dr. Swadesh Kumar Singh	Professor	Dr.J. Sridevi	Professor
Dr. R.Raman Goud	Professor	Dr.D G Padhan	Professor
Dr. N Sateesh	Professor	V.Vijaya Rama Raju	Asso. Prof.
Dr.U.S. Jyothi	Asso Prof	P Ravi Kanth	Asso. Prof.
Dr. Ram Subbaiah	Asso Prof	A Vinay Kumar	Asso. Prof.
B.Ch. Nooka Raju	Asso Prof	Syed Sarfaraz Nawaz	Asso. Prof.
D.S.Naga Raju	Asso Prof	Dr Pakkiraiah B	Asso. Prof.
K.Sunil Kumar Reddy	Asso Prof	Dr D Naga Malleswara Rao	Asso. Prof.
Dr S. Ravi Sekhar	Asst Prof	Dr P Sri Vidya Devi	Asso. Prof
D. Eswaraiah	Asst Prof	Dr D Raveendhra	Asso. Prof.
Dr. B.Tanya	Assoc Prof	P.Praveen Kumar	Asst. Prof
Dr. A. Anitha Lakshmi	Asst Prof	R. Anil Kumar	Asst. Prof
J.Venkata Suresh	Asst Prof	U. Vijaya Lakshmi	Asst. Prof
V.Balaji	Asst Prof	D Karuna Kumar	Asst. Prof
S Sravan Sashank	Asst Prof	Y Satyavani	Asst. Prof
Ch. Bandhavi	Asst Prof	M Naga Sandya Rani	Asst. Prof
B.Krishna Mohan	Asst Prof	G Sandya Rani	Asst. Prof
D.Suresh Kumar	Asst Prof	M Rekha	Asst. Prof

Summary of the Event

ICMED 2021 followed double blind review with minimum of two reviewers for each paper submitted. Care has been taken for plagiarism of all the article. Licensed plagiarism tool (Turnitin and Plagiarism Checker X) have been used and ensured each article has less than 25% plagiarism The ICMED 2021 peer-reviewed and accepted papers have been edited as conference proceedings to be published with E3S Web of Conferences (Open Access proceedings in Environment, Energy and Earth Sciences), which is indexed by Scopus, CPCI (Web of Science), Google Scholar, CAS, DOAJ, EBSCO, ProQuest and Ei Compendex. As editors of this special issue of the ICMED 2021 proceedings, we wish to express our sincere gratitude to the plenary speakers, authors, participants, reviewers, program and technical committee members, and organizing members; who have contributed in organization of the conference and publication of this special issue. With high standard and high-quality submissions and presentations in the ICMED, we are very much sure, one day ICMED will become a leading conference in this specific academic area of 'Design and Manufacturing Aspects for Sustainable Energy'. A Total of 85 papers are published out of 130 papers received

<p>IRG (in rupees)</p> <p>Deposited A/C no A/C name and date and other details</p> <p>(enclose proof-A/C statement)</p>	<p>710000 (seven lakhs ten thousand only)</p> <p>A/C no : 916010080365885, Gokaraju Rangaraju Educational Society – ICMPC.</p>
<p>Expenditure (in rupees)</p> <p>(Enclose proof-bills)</p>	<p>710000 (seven lakhs ten thousand only)</p>
<p>POs attained with this Event (number and description)</p>	<p>a. Ability to apply knowledge of mathematics, science, and fundamentals of Mechanical engineering.</p> <p>c. Ability to design a system, component, or process to meet desired needs in Mechanical Engineering within realistic constraints</p> <p>d. Ability to identify, formulate, analyze and interpret data to solve engineering problems.</p> <p>f. Ability to understand the impact of Mechanical Engineering solutions in a global, economic and societal context.</p> <p>l. Ability to recognition of the need for and industry to engage in life-long learning.</p>
<p>Photographs of the event (Hard copy and Soft copy)</p>	



Proofs:
1.Certificates copies
2.Profile of Speaker
3.PPT/Material as applicable. etc.,

Attached

Signature of Coordinator

Signature of HOD



3rd INTERNATIONAL CONFERENCE ON DESIGN AND MANUFACTURING ASPECTS FOR SUSTAINABLE ENERGY (ICMED2021)

24-26 September 2021



Call for Papers

International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED) focuses primarily on sustainable energy and design aspects in manufacturing process in manufacturing the components but encompasses perspectives from many engineering disciplines. This conference is the place for you to present your technical research and expertise, while also learning from and connecting with thousands of your peer researchers on a global level.

At International Conference on Design and Manufacturing Aspects for Sustainable Energy you'll experience basic discovery to translational application of new approaches and foster collaborations that engage stakeholders and partners not only from academia, but also from national laboratories, industry and government funding bodies. No other conference will provide you with broad, but salient perspectives and knowledge-sharing on technical advances within Sustainable Energy and design aspects in manufacturing.

Conveners and Editors

Dr. Swadesh Kumar Singh, GRIET

Dr. Satyanarayana K, GRIET

Dr. Phaneendra Babu B, GRIET

Dr. Suresh Kumar T, GRIET

Full Paper Submission 15 Aug 2021

Notification of Acceptance 01 Sep 2021

Camera Ready Paper 04 Sep 2021

Registration 05 Sep 2021

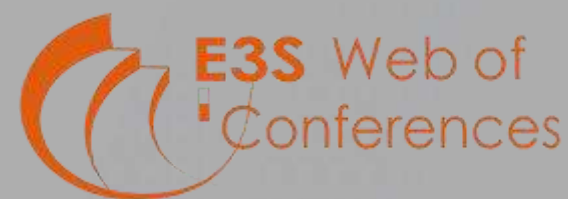
Conference Dates 24-26 Sep 2021

Publication

All accepted papers of ICMED 2021 will be published in **E3S Web of Conferences Proceeding (Open Access)** – Indexed in **Scopus, CPCI (Web of Science)**,

Submit your paper through Easy Chair

https://easychair.org/account/signin_timeout?l=5tiPKPSs5rajoD62esn6UJ#





3rd INTERNATIONAL CONFERENCE ON DESIGN AND MANUFACTURING ASPECTS FOR SUSTAINABLE ENERGY (ICMED2021)



24-26 September 2021

Tracks (Not limited to the following)

- Power Electronics, Advanced Electrical Machines and Energy Efficient Drives
- Modelling, Simulation and Control of EV/HEV/FCV Systems
- Wired and Wireless Charging Infrastructure, Standards and Guidelines
- Machine Learning, Bigdata and IOT Applications to Sustainable Energy and Electric Transportation
- New Battery and supercapacitor Technologies, Battery Management Systems and Fuel cells for EVs
- Renewable Energy Systems, Smart Grids, Micro grids and HVDC Transmission
- Wide Band gap Power Devices
- Additive and Lean Manufacturing Technologies
- Optimization Methods and Alternate materials for Manufacturing
- Material Testing
- High Speed and Hybrid Machining
- Product Development: Effective Strategies for Moving from Engineering to Production
- Green Manufacturing Processes
- Manufacturing of Modern Material
- Numerical Modelling and Simulation
- Virtual Manufacturing and Concurrent Engineering
- Robotics and Autonomous Systems.

www.icmed.in
icesdm-hyd@griet.ac.in

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Dr. K. Phani Raja Kumar, Tech Mahindra Americas, USA | **Dr. Akshay Kumar Rathore**, Concordia University Montreal | **Dr. Vinod Khadkikar**, Khalifa University, UAE | **Dr. Sagar Naik**, University of Waterloo, Canada | **Dr. Nitin Muttil**, Victoria University, Australia | **Prof. Manoj Gupta**, National University of Singapore | **Dr. Asma Parveen**, Nazarbayev University, Kazakhstan | **Dr. Sanjeevi Kumar Padmanaban**, Aalborg University | **Dr. V Krishna**, ARCI, Hyderabad, India | **Dr. Anand Parey**, IIT Indore, India | **Dr. S.K. Panda**, IIT Kharagpur, INDIA | **Prof. C S P Rao**, NIT Andhra Pradesh, India | **Dr. Manzoor Husain**, JNTU Hyderabad, India

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Registration

Category	Rupee	USD (\$)
Faculty	8500	300
Industry	10000	400
É Certificate for each Co-author	1000	40

Conference will be conducted virtually, E-Certificates will be issued to registered emailids at the time of Registrations

For any clarification contact:

Dr. Satyanarayana: +91-9493888998,
Dr. Phaneendra Babu: +91-9873630937

Gokaraju Rangaraju Institute of Engineering and Technology

Bachupally, Hyderabad, Telangana, INDIA 500090

www.griet.ac.in | 7207344440, 720771444 | info@griet.ac.in



**3rd INTERNATIONAL CONFERENCE ON
DESIGN AND MANUFACTURING ASPECTS FOR SUSTAINABLE ENERGY
24-26 Sept 2021**



Program Schedule

Inauguration				
	Name	Description	Affiliation	Time
24-09-2021 Friday	Dr B Phaneendra Babu	Introduction to the Programme and Welcoming the Guest and the Participants	Convener Conference GRIET, Hyderabad	09.00 – 09.15 AM
	Dr S K Singh	Opening Remarks	Dean R&D GRIET, Hyderabad	09.15 – 09.20 AM
	Mr M G Sekharam	Opening Remarks	CEO GRES, Hyderabad	09.20 – 09.30 AM
	Dr J Praveen	Welcome Address	Principal GRIET, Hyderabad	09.30 – 09.40 AM
	Dr N Sateesh	Opening Remarks and Introduction of Chief Guest	Head Mech Engg GRIET, Hyderabad	09.40 – 09.45 AM
	Dr K Venkateswarlu	Welcome Address	Chief Guest Senior Principal Scientist CSIR-NAL Bangalore	09.45 – 09.55 AM
	Dr J Sridevi	Vote of Thanks	Head EEE GRIET, Hyderabad	09.55 – 10:00 AM





**3rd INTERNATIONAL CONFERENCE ON
DESIGN AND MANUFACTURING ASPECTS FOR SUSTAINABLE ENERGY
24-26 Sept 2021**



Program Schedule

Keynote Sessions on Day 1				
	Speaker	Name & Affiliation	Topic	Time
24-09-2021 Friday		Dr K Venkateswarlu Senior Principal Scientist CSIR-NAL Bangalore	Advances in aerospace sector- role of material science	10.05 – 11.00 AM
		Dr Iraklis Nikolakakos Senior Researcher on Artificial Intelligence, Dubai Electricity & Water Authority	Dubai Electricity & Water Authority (DEWA) Smart Grid Station	11.05 – 12.00 PM

Keynote Sessions on Day 2				
	Speaker	Name & Affiliation	Topic	Time
25-09-2021 Saturday		Dr Manoj Kumar Gupta (Scientific Officer-G) Head, EDAS (Engineering Design and Analysis Section) Institute for Plasma Research, Bhat, Gujarat	Fusion Energy - The Energy source for future.	10.00 – 11.00 AM
		Dr Vinod Khadkikar Professor Khalifa University, Abu Dhabi, UAE	Electric Vehicle to Electric Vehicle Charging	11.15 – 12.00 AM



**3rd INTERNATIONAL CONFERENCE ON
DESIGN AND MANUFACTURING ASPECTS FOR SUSTAINABLE ENERGY
24-26 Sept 2021**



Program Schedule

24-09-2021 Friday	Timing	Paper ID	Zoom ID and Password
	02.00-05.00PM	10,11,13,14,40,56,68,77,101,105,131,132,135	
	02.00-05.00PM	3,6,7,8,9,12,16,17,18,20,21,24,29	

25-09-2021 Saturday	Timing	Paper ID	Zoom ID and Password	
	09.00-10.00 AM	109,122,123,124,129		
	09.00-10.00 AM	32,33,35,36,38		
	Keynote sessions			
	02.00-05.00 PM	39,43,44,46,47,50,54,55,57,58,59,60,62		
	02.00-05.00 PM	63,65,66,67,69,71,72,73,74,75,76,79,80		
	05.30-07.00 PM	81,86,90,91,92,94,96,100, 120,121		
	05.30-07.00 PM	102,104,108,111,113,115,116,119,126,137		



CERTIFICATE

— OF APPRICIATION —



THIS CERTIFICATE IS PROUDLY PRESENTED TO

SYED SARFARAZ NAWAZ

Gokaraju Rangaraju Institute of Engineering and Technology

for participating and presenting a paper title

A Comparative Analysis Of Fuzzy Logic Controller And Neural Network For DC-DC Buck Converter

in "3rd International Conference on Design and Manufacturing aspects for Sustainable Energy-2021" (ICMED2021) organised by Department of Mechanical Engineering and Electrical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during **24-26, September 2021**

Dr. Swadesh Kumar Singh
Convener

Dr. K. Satyanarayana
Convener

Dr. B. Phaneendra Babu
Convener



CERTIFICATE

— OF APPRICIATION —



THIS CERTIFICATE IS PROUDLY PRESENTED TO

SHAIK GOUSIA BEGUM

Gokaraju Rangaraju Institute of Engineering and Technology

for participating and presenting a paper title

A Comparative Analysis Of Fuzzy Logic Controller And Neural Network For DC-DC Buck Converter

in "3rd International Conference on Design and Manufacturing aspects for Sustainable Energy-2021" (ICMED2021) organised by Department of Mechanical Engineering and Electrical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during **24-26, September 2021**

Dr. Swadesh Kumar Singh
Convener

Dr. K. Satyanarayana
Convener

Dr. B. Phaneendra Babu
Convener



CERTIFICATE

— OF APPRICIATION —



THIS CERTIFICATE IS PROUDLY PRESENTED TO

AKSHAY DHAWAN

GLA University Mathura

for participating and presenting a paper title

A Sustainability Index Tool For Measuring The Environmental Performance Of A Metropolitan City

in "3rd International Conference on Design and Manufacturing aspects for Sustainable Energy-2021" (ICMED2021) organised by Department of Mechanical Engineering and Electrical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during **24-26, September 2021**

Dr. Swadesh Kumar Singh
Convener

Dr. K. Satyanarayana
Convener

Dr. B. Phaneendra Babu
Convener



CERTIFICATE

— OF APPRICIATION —



THIS CERTIFICATE IS PROUDLY PRESENTED TO

NAKUL GUPTA

GLA University

for participating and presenting a paper title

A Sustainability Index Tool For Measuring The Environmental Performance Of A Metropolitan City

in "3rd International Conference on Design and Manufacturing aspects for Sustainable Energy-2021" (ICMED2021) organised by Department of Mechanical Engineering and Electrical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during 24-26, September 2021

Dr. Swadesh Kumar Singh
Convener

Dr. K. Satyanarayana
Convener

Dr. B. Phaneendra Babu
Convener



CERTIFICATE

— OF APPRICIATION —



THIS CERTIFICATE IS PROUDLY PRESENTED TO
CHINTALAPATI ROHIT RAJU

Mahindra University

for participating and presenting a paper title
Natural Disaster Discernment And Visilance

in "3rd International Conference on Design and Manufacturing aspects for Sustainable Energy-2021" (ICMED2021) organised by Department of Mechanical Engineering and Electrical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during **24-26, September 2021**

Dr. Swadesh Kumar Singh
Convener

Dr. K. Satyanarayana
Convener

Dr. B. Phaneendra Babu
Convener



CERTIFICATE

— OF APPRICIATION —



THIS CERTIFICATE IS PROUDLY PRESENTED TO

DR N V GANAPATHI RAJU

Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad

for participating and presenting a paper title

Natural Disaster Discernment And Visilance

in "3rd International Conference on Design and Manufacturing aspects for Sustainable Energy-2021" (ICMED2021) organised by Department of Mechanical Engineering and Electrical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during **24-26, September 2021**

Dr. Swadesh Kumar Singh
Convener

Dr. K. Satyanarayana
Convener

Dr. B. Phaneendra Babu
Convener



GRIET/6C/G/21-22

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization Address:	GRIET				
Department	EEE	Professional Body		Institutional Body	
		ISTE			
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Technical Talk				
Title / Theme of the Event	Career in Biomedical Engineering and ISTE Farewell				
Details of the Coordinator & Designation	Anil Kumar R, Assistant Professor				
Event Dates/Days	From	To	No. of Days		
	26 OCT 2021	26 OCT 2021	01		
Details of the Speaker / Guest Organization Address:	Dr. Tatiparti Padma , Professor, Dept. of ECE, GRIET.				
Participants (Teaching Faculty / Non-Teaching Faculty / Students) Enclose participants list	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	6	63			69
Faculty Names & Designation	Dr. J Praveen, Professor Mr. Phaneeshwar Dr. J Sridevi, Professor Dr. N Swetha, Professor Mr. Anil Kumar R, Assistant Professor Mr. Vinay Kumar A, Associate Professor				

<p>Summary of the Event</p>	<p>The event started with the introduction of Speaker Dr. Tatiparti Padma. The session started at 10:30 AM which was attended by students and also the faculty. Ma'am started the talk by telling what is Biomedical Engineering and how is it related to engineering branches. There has been tremendous Growth in Biomedical Department since the start of the Corona Virus. Many devices have been developed for measuring the bio signals in the human body like EEG Sensor, Inertial Sensor, Blood Pressure Sensor, Pulse Oximetry Sensor, and many more Biomedical Devices. IoT is a network in which all physical objects are connected to the internet through network devices or routers and exchange data. Internet of things (IoT) plays a major role in Biomedical Engineering, Data is being collected by sensors through Intra-BAN communications this data through Inter-BAN communication like 3G/4G communications being sent to medical staff, medical server and Ambulance so immediate actions could be taken by doctors by taking patients health profile into consideration She mentioned that it is a good and intelligent technique which increases the chance of protecting Patients. She then explained about Biomedical Signal Processing and how is it actually performed their application areas and the advantages of using them.</p> <p>Then our Principal Dr. J Praveen Sir started his speech with the importance of student bodies in college, gave his precious ideas to the new team. He instructed us to conduct guest lectures and Industrial Visits every month which will educate the students</p> <p>The letter of Appreciation was provided to the ISTE TEAM individually by our Principal Dr. J Praveen Sir, Mr. Phaneeshwar Sir, Dr. J Sridevi madam EEE Department HOD and Dr. N Swetha madam ECE Department HOD.</p>
<p>IRG (in rupees) Deposited A/C no A/C name and date and other details</p>	<p>NA</p>
<p>Expenditure (in rupees) (Enclose proof-bills)</p>	<p>Rs7275</p>
<p>POs attained with this Event (number and description)</p>	<p><i>5. Ability to function on multi-disciplinary teams.</i></p> <p><i>6. Understanding of professional and ethical responsibility.</i></p> <p><i>8. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.</i></p> <p><i>9. Recognition of the need for, and an ability to engage in life-long learning.</i></p>



Photographs of the event
(Hard copy and soft copy)

Guest lecture on carrier in Biomedical engineering and farewell by ISTE GRIET SB

Date:26/10/21



Proofs:
1.Certificates copies
2.Profile of Speaker
3.PPT/Material as applicable. etc.,

Attached.

Signature of Coordinator

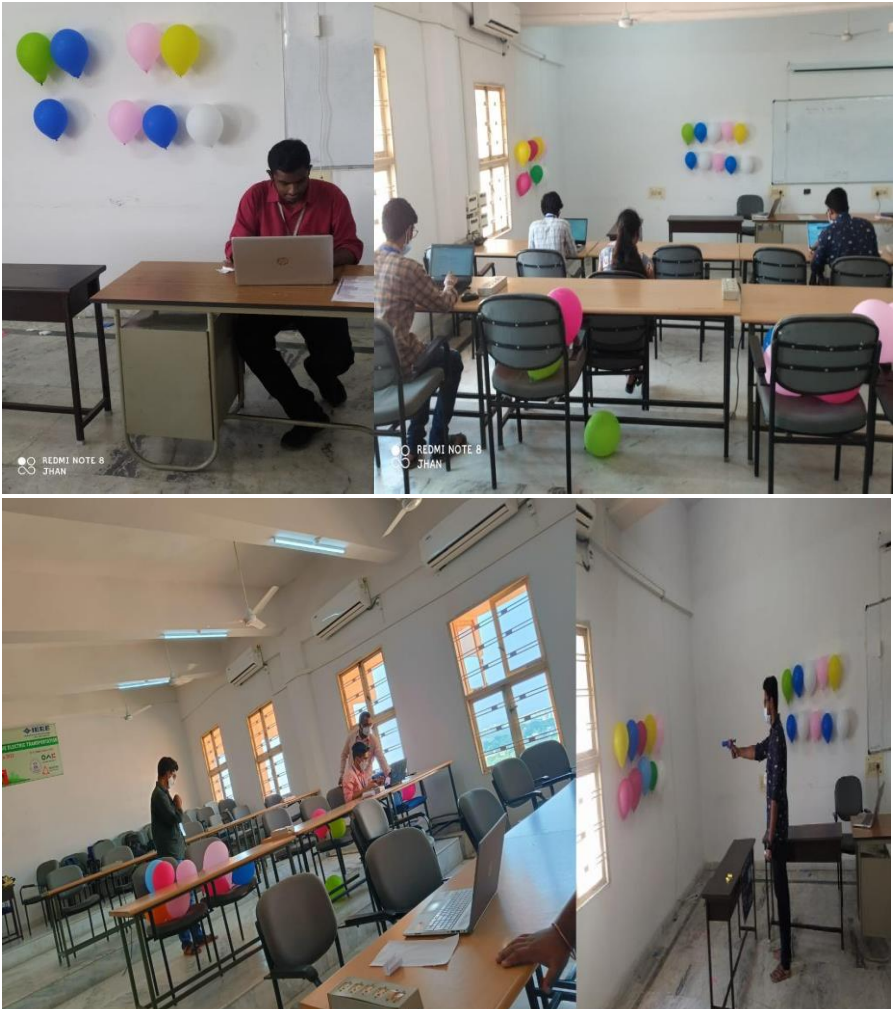
Signature of HOD



GRIET/6C/G/21-22

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization Address:	GRIET				
Department	EEE	Professional Body		Institutional Body	
		IEEE-EEC			
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Technical Event				
Title / Theme of the Event's	PRAGNYA'21 BLAST”N”CODE ELECTRYONZ				
Details of the Coordinator & Designation	Mr. Vinay Kumar A, Associate Professor.				
Event Dates/Days	From	To	No. of Days		
	25 Nov 2021	25 Nov 2021	01		
Details of the Speaker / Guest Organization Address:	Mr. Anil Kumar R , Assistant Professor Mrs. M N Sandhya Rani , Assistant Professor				
Participants (Teaching Faculty / Non-Teaching Faculty / Students) Enclose participants list	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	0	10	0	0	10
Faculty Names & Designation	Dr. J Praveen, Principal, Dr. B Phaneendra Babu, HOD,				
Summary of the Event	IEEE-EEC has organized technical event's on Blast”n”code and Electryonz . It was an problem analytic activity where students had participated and tested their knowledge on coding also they have gained lot of technical knowledge along with fun. Got technical knowledge in identifying and building circuits.				

IRG (in rupees) Deposited A/C no A/C name and date and other details	NA
Expenditure (in rupees) (Enclose proof-bills)	1550/- (Rupees One Thousand Five Hundred Fifty only)
POs attained with this Event (number and description)	<ol style="list-style-type: none"> 1. Ability to function on multi-disciplinary teams. 2. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context. 3. Recognition of the need for, and an ability to engage in life-long learning.
Photographs of the event (Hard copy and Soft copy)	



Proofs:

- 1. Certificates copies**
- 2. Profile of Speaker**
- 3. PPT/Material as applicable. etc.,**

Attached.

Signature of Coordinator

Signature of HOD



GRIET/6C/G/21-22

17th Dec 2021

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization Address:	GRIET				
Department	EEE	Professional Body		Institutional Body	
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Industry Visit				
Title / Theme of the Event	AZADI KA AMRIT MAHOTSAV				
Details of the Coordinator& Designation	Dr. B Phaneendra Babu, Professor. EEE Dept. GRIET, Hyderabad				
Event Dates/Days	From	To	No. of Days		
	16 December 2021	16 December 2021	01		
Details of the Speaker / Guest Organization Address:	Hindustan Aeronautics limited, Avionics Division, Balanagar, Hyderabad, Telangana 500042				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	2	55			57

Enclose participants list					
Faculty Names & Designation	<p>Dr. D S Naga Malleswara Rao, Associate Professor, EEE Dept. GRIET, Hyderabad</p> <p>D.Karunakumar Assistant Professor, EEE Dept. GRIET, Hyderabad</p>				
Summary of the Event	<p>We arrived at Hindustan Aeronautics limited at 10:16 AM. We entered into Public exhibition hall. There was a presentation about the history and functioning of Hindustan Aeronautics limited. They gave information about advanced technology used in MARK 4 RUDRA, Light Combat Helicopter, Light Utility Helicopter, Dornier 228, SU-30 MKI, Hawk mk 132, Light Combat Aircraft Tejas. And the technology development in signal transmission and receiving, controls of pilot, capturing the audio and video of movement of ships and transmitting it to the base. They even gave the information about the inventions made by Hindustan Aeronautics limited, different models of planes designed and tested in harsh environment, different types of engines, turbines. And information about upcoming plans in development(In R&D) of aircrafts. Later at 11:30 students entered Hindustan Aeronautics limited hall where there was demonstration of different technologies used in communications, different radar systems, navigation systems, video recording and transmitting, identifying the jets (either friend or foe), break control hydraulic, hydraulic, engine and electrical monitoring system unit, Integrated communication system, auto flight controls, hybrid micro electronics, voice activated command system.</p>				
IRG (in rupees) Deposited A/C no A/C name and date and other details					
Expenditure (in rupees) (Enclose proof-bills)					
POs attained with this Event (number and description)	<p>PO3:Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.</p> <p>PO6:Understanding of professional and ethical responsibility.</p> <p>PO9:Recognition of the need for, and an ability to engage in life-long learning.</p>				

PO10:Knowledge of contemporary issues.

PO12:Graduates will demonstrate an ability to design electrical and electronic circuits, power electronics, power systems; electrical machines analyze and interpret data and also an ability to design digital and analog systems and programming them.

Photographs of the event

(Hard copy and soft copy)



Proofs:

- 1.Certificates copies
- 2.Profile of Speaker
- 3.PPT/Material as applicable. etc.,


Signature of Coordinator


Signature of HOD



Gokaraju Rangaraju Institute of Engineering & Technology

Dept: EEE II Year I Sem Academic Year:2021-22

HAL Industry Visit-Student List

Date: 16.12.2021

S.No	Roll Numbers	Name
1	20241A0201	B V S N S GANESH
2	20241A0202	BAIRI RAKESH GOUD
3	20241A0203	BALNEEDI LAKSHMI NARASIMHA RAO
4	20241A0204	BATHULA SWATHI
5	20241A0205	BELLAL SAI VIGNESH
6	20241A0206	BHUKYA PAVAN KALYAN
7	20241A0207	BOMMA VENKATA PARAMESH REDDY
8	20241A0208	C TARUN RAJ
9	20241A0210	CHEEKATI NIKHIL
10	20241A0211	DATLA RAJA SHANMUKHA PRABHATH VARMA
11	20241A0212	DEVARAI BHAVANA
12	20241A0215	K SRUJAN
13	20241A0216	KALAKOTLA SARDINA
14	20241A0218	KAVVAMPALLY SHARADA
15	20241A0219	KOTHA HARSHITH
16	20241A0220	KOTHA SRIKAR
17	20241A0221	KURAVA GANESH KUMAR
18	20241A0222	M ANIL KUMAR
19	20241A0223	M GAYATHRI
20	20241A0224	MADHAMSHETTY UMESH KRISHNA
21	20241A0225	MAMIDI NITISH CHANDRA
22	20241A0226	MOHAMMED NADEEM
23	20241A0227	NAGU BHUVANESH REDDY
24	20241A0229	NAMPALLI MAHESHWARI
25	20241A0230	ODNALA MANUSHA
26	20241A0232	PENMETSIA RAKESH VARMA
27	20241A0233	PISINI SATHVIKA
28	20241A0234	POLURI SAI VENKAT AKASH
29	20241A0235	RAMINENI VYSHNAVI
30	20241A0238	S R P SAI SANDEEP
31	20241A0239	S VIKAS
32	20241A0240	SADIGE CHANDRA PRASAD
33	20241A0241	SANIYA MAHAWIN
34	20241A0242	SATTUR AKSHITHA
35	20241A0243	SHABANA BEGUM
36	20241A0244	SRIKANTH GAJJALA
37	20241A0245	THAPPETA KAVYA SREE
38	20241A0246	THATI RANJITH
39	20241A0247	TUMMA SURYA PRAKSH
40	20241A0248	UMMIDISSETTY NIHARIKA
41	20241A0249	UPPULA PAVAN KUMAR
42	20241A0250	VARMANI RAHUL VARMA
43	20241A0252	VORUGANTI PRANEETH GOUD
44	20241A0253	YADLA VIJAYA SREE
45	20241A0254	YERRAGUNTLA LAKSHMI SRI HARSHITHA

46	20241A0257	SUSANI NEHA
47	21245A0201	JAKINAPALLI CHANDHANA
48	21245A0202	KULKARNI AKSHITH
49	21245A0203	MARIMGANTI SRIKANTH
50	21245A0204	POSHALA SRINATH
51	21245A0205	SANATHANA JAHNAVI
52	21245A0206	VEMULA SATYANARAYANA
53	21245A0207	MAREEDU KUSHAL GOUD
54	21245A0208	JADALA VARUN SAI
55	21245A0209	OM POHANKAR





GRIET/2022/IEEE IAS SBC-1

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization			
Address:	GRIET		
Department		Professional Body	Institutional Body
		IEEE-IAS SB Chapter IA34 (SBC64761C)	IEEE GRIET SB
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Inauguration of IEEE IAS SB Chapter and followed by Technical Talks		
Title / Theme of the Event	Inauguration of IEEE Industry Application society student branch chapter		
Details of the Coordinators & Designation	<p>Dr. B. Phaneendra Babu IEEE GRIET SB Counsellor Professor and head of department (department of EEE) GRIET, Hyderabad</p> <p>Mrs G Sandya Rani IEEE GRIET IAS SB Chapter Advisor</p>		
Event Dates/Days	From	To	No. of Days
	27 January	27 January	01

	2022	2022			
Details of the Speaker / Guest Organization Address:	<p>Prof. Zuhaina Zakaria, Dean Institute of Graduate studies University Teknologi Mara, Malaysia.</p> <p>V.Ananda, Solution Lead Power Electroincs, Tech Mahindra, Hyderabad</p>				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
Enclose participants list	8	73			81
Faculty Names & Designation	<p>Dr. J. Praveen - Principal</p> <p>Dr. B. Phaneendra Babu, Professor, Head , Dept. of EEE</p> <p>G. Sandhya Rani - Assistant Professor</p> <p>Dr Y Vijayalatha - Professor, Dept. of CSE</p> <p>A. Vinay Kumar - Associate Professor</p> <p>R. Anil Kumar - Assistant Professor</p> <p>M.N. Sandhya Rani - Assistant Professor</p> <p>V. Usharani - Assistant Professor</p>				
Summary of the Event	<p>The event started with the introduction of the Chief Guest Prof. Zuhaina Zakaria and Guest of Honour Mr. V.Ananda.The session started at 3:32 PM. with prayer. IEEE IAS SB Chair, Ms Saniya gave a brief introduction to IEEE and IEEE Industry Application Society. Dr. B. Phaneendra Babu sir addressed the event and IEEE GRIET SB Chapter. Principal, GRIET - Dr J Praveen address the participants; Dr Amit Kumar, Immediate past chair joined the event and addressed the participants; D, r Y Vijaya Latha, IEEE Hyderabad section Vice Chair joined the event and addressed the participants. The inauguration of the IEEE IAS Student body logo. by Prof. Zuhaina Zakaria. Followed by Technical talk on traffic control and prediction: A practical case of Tehran Highway. Mam has explained how traffic is a big problem in big cities and how problematic it is to estimate the traffic estimation. Mam also explained a case study on how the air is polluted by the use of more vehicles and mam explained how to manage traffic networks by traffic prediction. She gave the information on what are the methods proposed for traffic prediction and how it works and explained how it is tested and verified. There was a Q&A session in which students asked</p>				

	<p>various curious questions regarding traffic control and prediction: A practical case of Tehran Highway. Mam answered all the questions students asked Mr. V.Ananda sir started technical talks on Practical issues in conducting industrial drives. He has explained his experience when he went for a sight visit to a plant in August 2007 in Chennai how the change in humidity and atmosphere has caused the failure of IGDTs. explained about the earthing system and the importance of bonding between different systems like the power drive system. And explained the methods on common noise reduction, the safety of operating personals, guidelines as per IEC/UL 61800-5-1, Power quality, DC-Link capacitor, and its lifetime and thermal conditions. There was a Q&A session in which students asked various curious questions regarding Practical issues in conducting industrial drives. Sir answered all the questions students asked. The Inauguration completed with vote of thanks by IEEE IAS SB secretary.</p>
<p>IRG (in rupees) Deposited A/C no A/C name and date and other details</p>	<p>NA</p>
<p>Expenditure (in rupees) (Enclose proof-bills)</p>	<p>NIL</p>
<p>POs attained with this Event (number and description)</p>	<ol style="list-style-type: none"> 1. <i>Broad education necessary to understand latest trends and development in electrical machines.</i> 2. <i>Recognition of the need for, and an ability to engage in life-long learning.</i>
<p>Photographs of the event (Hard copy and soft copy)</p>	




3:36 PM | vec-yqjt-bet


60 others

REC Vijaya Sree Yadla is presenting

WELCOME



INDUSTRY APPLICATION SOCIETY
STUDENT BRANCH CHAPTER
 THE NEW CHAPTER OF IEEE STUDENT BRANCH
 GRIET







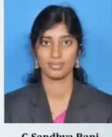



3:51 PM | vec-yqjt-bet

57 others







REC Vijaya Sree Yadla is presenting

IEEE INDUSTRIAL APPLICATION SOCIETY
GRIET SB Chapter
 2022-2023

CORE COMMITTEE MEMBERS

 Dr. Phaneendra babu SB Counsellor	 Saniya chair	 Maheshwari Vice chair	 Jahnvi Secretary	 G.Sandhya Rani IAS Advisor
 Niharika Treasurer	 Vijaya sree Web master	 Kavya sree Industry Ambassador		


CO-MEMBERS

 Sandeep	 Rakesh Goud	 Vyshnavi	 Rakesh Varma	 Manusha	 Prabath Varma
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3:51 PM | vec-yqjt-bet

56 others

REC Vijaya Sree Yadla is presenting



Inaugural Ceremony of
IEEE Industry Application Society Student Branch Chapter
 27 January, 2022



PROF. DR. ZUHAINA ZAKARIA
 DEAN INSTITUTE OF GRADUATE STUDIES
 UNIVERSITY TEKNOLOGI MARA MALAYSIA
 &
 CHAIR, IEEE ADMISSION & ADVANCEMENT
 COMMITTEE 2022

TOPIC: TRAFFIC FLOW CONTROL AND PREDICTION : A
 DIFFERENTIAL GAME APPROACH IN HIGHWAY

Surya Prakash has left the meeting

3:53 PM | vec-yqjt-bet

54 others

Traffic Control and Prediction : A Practical Case of Tehran Highway

Zuhaina Zakaria, PhD Universiti Teknologi MARA (UITM), Shah Alam, Malaysia
 Hossein Zeynal, PhD Tehran Farayand Dena Engineering Co, Tehran, Iran
 Ahmad Kor, Kharazm Power Engineers Co., Tehran, Iran

3:56 PM | vec-yqjt-bet

PROFESOR IR DR ZUHAINA HAJI ZAKARIA is presenting



4:05 PM | vec-yqjt-bet

Vijaya Sree Yadla is presenting

**Inaugural Ceremony of
IEEE Industry Application Society Student Branch Chapter
27 January, 2022**

Mr. V ANANDA
 DISTINGUISHED GRIET ALUMI
 Solution Lead, Power Electronics
 Tech Mahindra
 Hyderabad

TOPIC: PRACTICAL ISSUES IN INDUSTRIAL DRIVES

4:14 PM | vec-yqjt-bet

REC V Ananda Sai is presenting

Press **ESC** to exit full screen

Practical aspects of Industrial Drives

INSTALLATION ENVIRONMENT

ANANDA SAI V

4:17 PM | vec-yqjt-bet

REC V Ananda Sai is presenting

Press **ESC** to exit full screen

Attention to Bonding

- Common Mode Noise Reduction
- Safety of operating personnel
- Guidelines per IEC/UL 61800-5-1
 - Cross section of PE conductor must be $S/2$, where S is the cross section of motor cable

4:39 PM | vec-yqjt-bet

Meet - vec-yqjt-bet

meet.google.com/vec-yqjt-bet?authuser=2

REC

3:52 PM | vec-yqjt-bet

Proofs:

1. Certificates copies
2. Profile of Speaker
3. PPT/Material as applicable. etc.,

G. Gandhyani

Signature of Coordinator

B. Phaneendra Babu

Signature of HOD

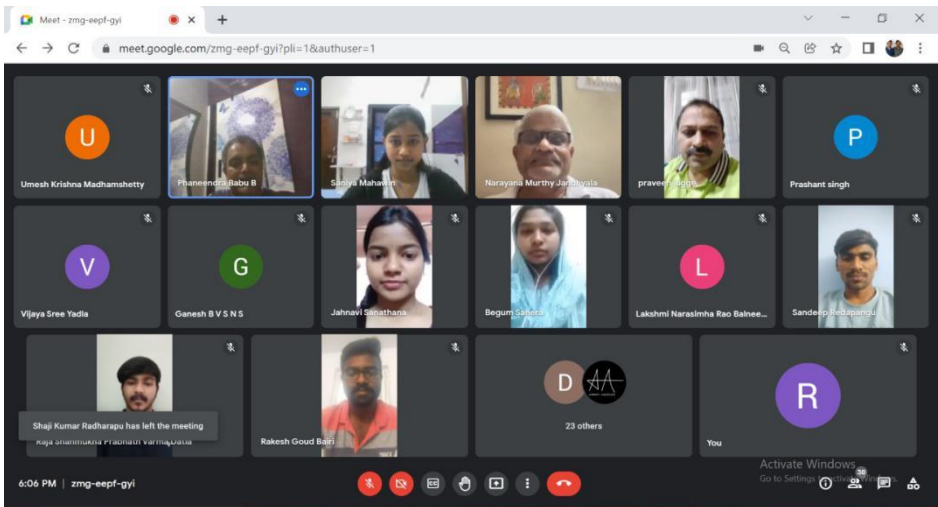


GRIET/2022/IEEE IAS SBC-2

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization			
Address:	GRIET		
Department		Professional Body	Institutional Body
		IEEE-IAS SB Chapter IA34 (SBC64761C)	IEEE GRIET SB
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Technical Talks		
Title / Theme of the Event	Technical Talk on Electric Vehicles and its Future scope in India		
Details of the Coordinators & Designation	<p>Dr. B. Phaneendra Babu IEEE GRIET SB Counsellor Professor and head of department (department of EEE) GRIET, Hyderabad</p> <p>Mrs G Sandya Rani IEEE GRIET IAS SB Chapter Advisor</p>		
Event Dates/Days	From	To	No. of Days
	5 February	5 February	01

	2022	2022			
Details of the Speaker / Guest Organization Address:	Mr.B.T. Prashant Singh , System Incharge Unit- Research Engineer Electric Vehicle Division Hyundai Motors India Engineering				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
Enclose participants list	8	41		0	49
Faculty Names & Designation	<p>Dr Jandhyala N Murthy - Director</p> <p>Dr J Praveen - principal</p> <p>Dr. B. Phaneendra Babu, Professor, Head , Dept. of EEE</p> <p>Dr. B. Pakkiraiah, Professor</p> <p>Dr. D. S. Naga Malleswara Rao- Associate Professor</p> <p>V. Usharani - Assistant Professor</p> <p>Y. Sathya Vani - Assistant Professor</p> <p>G.Sandhya Rani - Assistant Professor</p>				
Summary of the Event	<p>The event started with the introduction of the Chief Guest Mr.B.T. Prashant Singh and address the participants. The session started at 6:01 PM. IEEE IAS SB Chair, Ms. Saniya gave a brief introduction about Electric Vehicles. Dr. B. Phaneendra Babu sir addressed the event. Mr.B.T. Prashant Singh sir started technical talks on Electric Vehicles and its Future in India. Sir started with what are the developments and research going on in the upcoming EV Technologies and the history of EV and challenges faced by EV technologies in the 19th century and how they are developed in technology and their safety by 21st century. he also explained how the usage of EVs is rising in India. He compared the ICE and EV vehicle's range, maintenance and lifetime of battery of EV. Prashant sir explained the different types of vehicles available in the market like conventional, hybrid, plug-in hybrid, full electric. And explained the working and their functions of electric vehicles and also the different types of functioning of different company EV's and charging stations. He gave details of standards and regulations that need to be followed by Electric Vehicles and different</p>				

	<p>software used in EV's and different technologies that came in charging the vehicles. There was a Q&A session in which students asked various curious questions regarding different technologies in Electric Vehicles. Sir answered all the questions which are asked by the students. The event completed with vote of thanks by IEEE IAS SB secretary Jahnvi</p>
<p>IRG (in rupees) Deposited A/C no A/C name and date and other details</p>	<p>NA</p>
<p>Expenditure (in rupees) (Enclose proof-bills)</p>	<p>NIL</p>
<p>POs attained with this Event (number and description)</p>	<ol style="list-style-type: none"> 1. <i>Broad education necessary to understand latest trends and development in electrical machines.</i> 2. <i>Recognition of the need for, and an ability to engage in life-long learning.</i>
<p>Photographs of the event (Hard copy and soft copy)</p>	

Meet - zmg-eeef-gyi

meet.google.com/zmg-eeef-gyi?pli=1&authuser=1

6:05 PM | zmg-eeef-gyi

Phaneendra Babu B is presenting

Standards & Regulations

Standards:
To safely operate parts & sub-parts at different working conditions standards are developed by OEM's, Government bodies, Automotive bodies...
Ex: IEC, SAE, IEEE, HMG std, Tata std...

Regulations:
To safely operate Vehicle & parts at different working conditions Regulations are developed by Government certifying bodies.
Ex: ARAI, ICAT...

After certified by ARAI/ICAT vehicle are allowed to launch in Indian Market's

6:42 PM | zmg-eeef-gyi

Phaneendra Babu B is presenting

Communication & Software role in EV's

Different Electronic Control Unit (ECU's) interconnect to communicate between parts. More than 35+ ECU are used in 4W supported by sensors, programming, logic...

Battery pack
Battery Management System (BMS) ECU monitors all cells (approx. 1500+ cells) and takes decisions as per requirement.
To improve Management **AI & ML** to enter into BMS & other ECU's & charging infra

Control units in vehicles Communication in Grid for EV Charging ECU's in Battery packs

6:47 PM | zmg-eeef-gyi

Phaneendra Babu B is presenting

Power Train parts of xEV's

Hybrid EV's
Vehicle using ICE power & Electric power to propel Vehicle

Types of xEV's

SOURCES OF ENERGY
CONSUMPTION
EMISSIONS

Fuel Cell EV

6:31 PM | zmg-eeef-gyi

Proofs:

- 1.Certificates copies**
- 2.Profile of Speaker**
- 3.PPT/Material as applicable. etc.,**

G. Gandhykeeri
Signature of Coordinator

B. Phaneendra Babu
Signature of HOD



GRIET/2022/IEEE IAS SBC-2

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization Address:	GRIET		
Department	EEE	Professional Body	Institutional Body
		IEEE-IAS SB Chapter IA34 (SBC64761C)	IEEE GRIET SB
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Industrial visit		
Title / Theme of the Event	<u>Industrial Visit To 400kV Power Grid Substation</u>		
Details of the Coordinators & Designation	Dr. Pakkiraiah B Associate Professor (department of EEE) GRIET, Hyderabad Mrs G Sandya Rani IEEE GRIET IAS SB Chapter Advisor		
Event Dates/Days	From	To	No. of Days
	28 th February 2022	28 th February 2022	01

Details of the Speaker / Guest Organization Address:	Shri Mohammed Mosin, Deputy, General Manager, Power Grid Corporation of India Ltd Sub-station, Ghatkesar, Ranga Reddy District, Telangana, India				
Participants (Teaching Faculty / Non-Teaching Faculty / Students) Enclose participants list	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	1	25	0	0	26
Faculty Names & Designation	Dr. Pakkiraiah B, Associate Professor, EEE Department				
Summary of the Event	<p>The department of Electrical Engineering, Gokaraju Rangaraju College of Engineering and Technology, Hyderabad had organized a one-day Industrial visit to 400kV Power Grid Substation, Ghatkesar on 28th February, 2022. There were 25 students from EEE- III year along with teaching faculties Dr.Pakkiraiah. At 10:30 am, we reached at Substation, Ghatkesar. After reaching there, Shri Mohammed Mosin received us with a warm welcome. Mohammed Mosin sir had explained the working substation in depth. Then we were taken to the control room. In the control room, every quantity of the substation is continuously monitored and we observed the real time data of substation on the panel.</p> <p style="text-align: center;">➤ OBJECTIVE OF VISIT:</p> <p style="text-align: center;">The trip was organized by the Samskruti Foundation and this visit was known as "National Science Day Study Trip". This foundation is coped with many engineering colleges to provide awareness about value ethics, tradition and culture of India. Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge of electrical power transmission and distribution. Being III-year students, they will get to know about basic industrial functioning of power transmission and distribution. Students will also get familiar with Transformer maintenance, circuit breaker, Transformer isolator, bus bar, Protective relays, Lightning arresters, Load break switches, SCADA system, Current and voltage Transformer and Battery room.</p> <p style="text-align: center;">➤ EQUIPMENT IN A 400KV SUB-STATION:</p>				

The equipment required for a transformer Sub-Station depends upon the type of Sub-Station, Service requirement and the degree of protection desired. 400KV EHV Sub-Station has the following major equipment's:

- Bus-bar
- Insulators
- Isolating Switches
- Circuit breaker
- Protective relay
- Instrument Transformer
- Current Transformer
- Voltage Transformer
- Metering and Indicating Instrument
- Miscellaneous equipment
- Transformer
- Lightning arrestors
- Line isolator
- Wave tap


Shri Mohammed Mosin sir had explained the above equipment's one by one, their functions etc. He explained each and every thing with a great interest and shared a lot of knowledge with us. He explained the how the transmission and distribution takes places, the protective schemes taken to protect the equipment's present in substation.

➤ **SINGLE LINE DIAGRAM (SLD):**

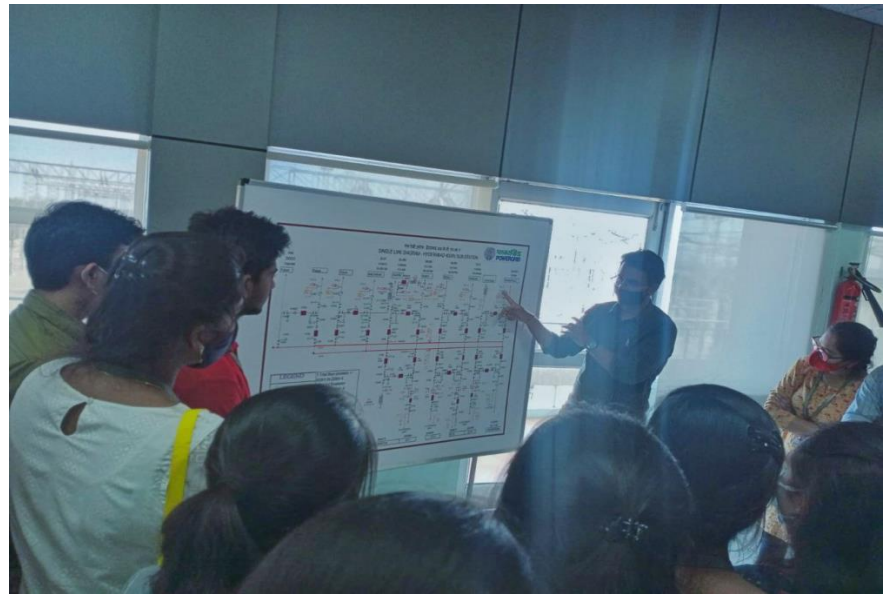
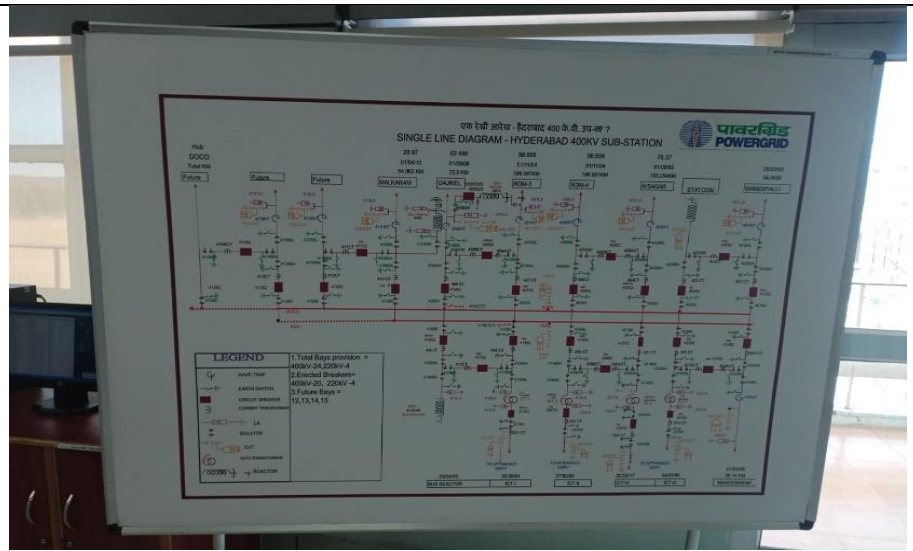
A Single Line Diagram (SLD) of an Electrical System is the Line Diagram of the concerned Electrical System which includes all the required ELECTRICAL EQUIPMENT connection sequence wise from the point of entrance of Power up to the end of the scope of the mentioned Work. As these feeders enter the station they are to pass through various instruments. The instruments have their usual functioning.

➤ **CONCLUSION:**

Now from this report we can conclude that electricity plays an important role in our life. We are made aware of how the transmission the transmission of electricity is done. We too came to know about the various parts of the substation system. We are very grateful to 400 kV Ghatkesar Substation for giving permission for this visit. Students got an opportunity to know regarding practical aspects about what they are learning in theory. We hope that such kind of events will be given by Samskruti Foundation in future also. It was an informative, interesting and a successful visit.

<p>IRG (in rupees)</p> <p>Deposited A/C no A/C name and date and other details</p>	<p>NA</p>
<p>Expenditure (in rupees)</p> <p>(Enclose proof-bills)</p>	<p>NIL</p>
<p>POs attained with this Event</p> <p>(number and description)</p>	<p><i>1. Broad education necessary to understand latest trends and development in electrical machines.</i></p> <p><i>2. Recognition of the need for, and an ability to engage in life-long learning.</i></p>
<p>Photographs of the event</p> <p>(Hard copy and soft copy)</p>	







Proofs:

- 1.Certificates copies**
- 2.Profile of Speaker**
- 3.PPT/Material as applicable. etc.,**

G. Gandhykani

Signature of Coordinator

B. Phaneendra Babu

Signature of HOD




GRIET/2022/IEEE IAS SBC-3

EVENT SUMMARY REPORT

GRIET/Other institutes/Organization			
Address:	GRIET		
Department		Professional Body	Institutional Body
		IEEE-IAS SB Chapter IA34 (SBC64761C)	IEEE GRIET SB
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	Technical Talks		
Title / Theme of the Event	TECHNICAL TALK ON 'SENSORLESS CONTROL OF ELECTRICAL DRIVES'		
Details of the Coordinators & Designation	<p>Dr. B. Phaneendra Babu IEEE GRIET SB Counsellor Professor and head of department (department of EEE) GRIET, Hyderabad</p> <p>Mrs G Sandya Rani IEEE GRIET IAS SB Chapter Advisor</p>		
Event Dates/Days	From	To	No. of Days
	29 March	29 March	01

	2022	2022			
Details of the Speaker / Guest Organization Address:	Dr. Gopinath G R, Assistant Professor in the Electrical & Electronics Engineering Department at Mahindra				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
Enclose participants list	4	123	0	0	127
Faculty Names & Designation	Dr. J. Praveen - Principal Dr. B. Phaneendra Babu, Professor, Head , Dept. of EEE Y. Sathya Vani - Assistant Professor G.Sandhya Rani - Assistant Professor				
Summary of the Event	The event started with the introduction of the Chief Guest Dr. Gopinath G R and address the participants. The session started at 1:35 PM. IEEE IAS SB Chair, Ms. Saniya gave a brief introduction about the present technology used in EV's. Dr. B. Phaneendra Babu sir addressed the event. Dr. Gopinath G R sir started technical talk on sensorless control of electrical drives. Sir started the event by giving an introduction about modeling, control, and sensorless techniques, extended Kalman Filter Observer. Later sir started explaining the characteristics and different types of permanent magnet synchronous motor and their purposes of internal end external mounted PMSM. He explained factors effecting the efficiency. He explained the factors and constants in modeling the PMSM of the stator and rotor. Sir explained inductance in the stationary alpha-beta reference frame, coordinate transformations in power noninvariant, and mechanical modeling. Sir explained the speed control characteristics at different frequencies how torque and power will vary and the efficiency map of the Toyota Prius motor. Sir gave a brief explanation about control strategies for PMSM and vector control of IPMSM in the rotor reference frame, speed control design, estimation technique. Sir answered all the questions which are asked by the				

	students. The event was completed with a vote of thanks by Vyshanavi
IRG (in rupees) Deposited A/C no A/C name and date and other details	NA
Expenditure (in rupees) (Enclose proof-bills)	3690
POs attained with this Event (number and description)	<ol style="list-style-type: none"> 1. <i>Broad education necessary to understand latest trends and development in electrical machines.</i> 2. <i>Recognition of the need for, and an ability to engage in life-long learning.</i>
Photographs of the event (Hard copy and soft copy)	





Proofs:

- 1. Certificates copies**
- 2. Profile of Speaker**
- 3. PPT/Material as applicable. etc.,**

Signature of Coordinator

Signature of HOD