



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

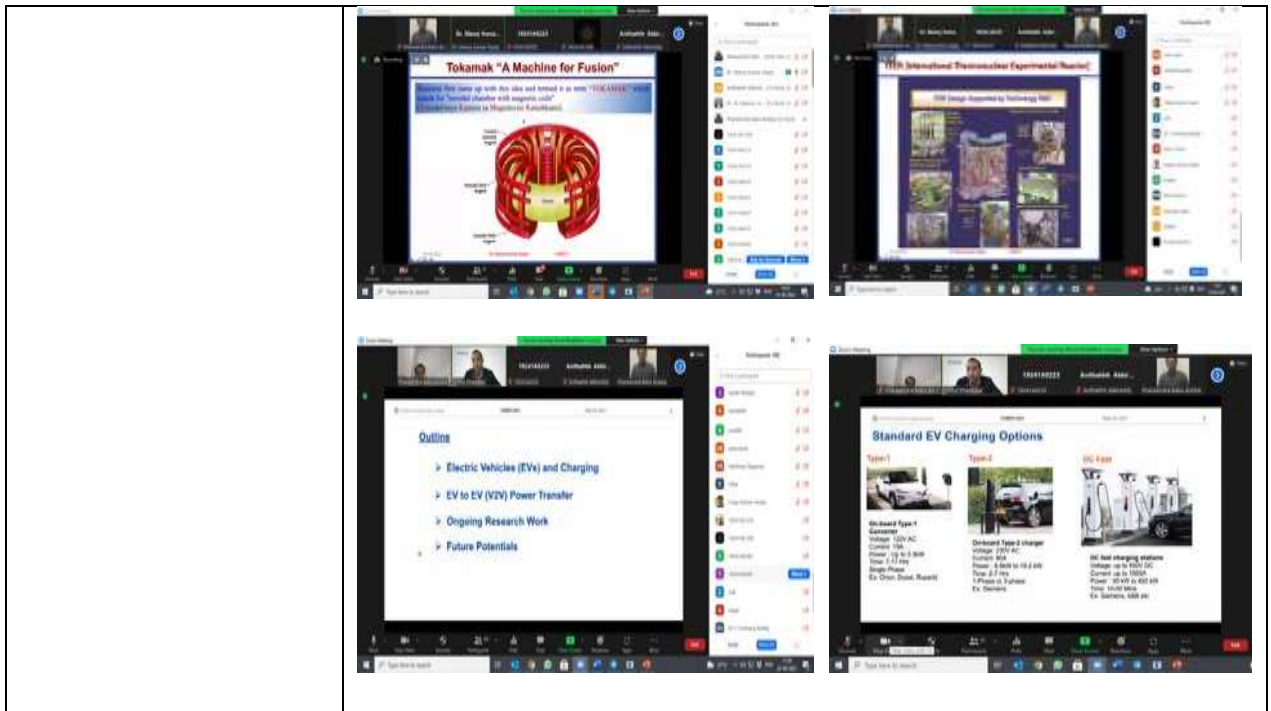
Faculty Names & Designation

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

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**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





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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



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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

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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

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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 APPRECIATION —



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

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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
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