



# A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, Karnataka, INDIA

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A Memorandum of Understanding (MOU) was signed by Diligentec Solutions and AJIET to arrange conferences for the 2020–21 and 2021–22 academic years. Through this collaboration, professors, researchers, and scholars from all over the world will be able to exchange cutting-edge discoveries and advancements in the fields of engineering, and technology.

Sl No.	Event	Year	Page No.
1	Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2021)	2020-21	2-23
2	Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2021)	2020-21	24-30
3	Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2022)	2021-22	31-67
4	Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022)	2021-22	68-79

  
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# GC-RASM 2021

## 2021 Global Conference on Recent Advances in Sustainable Materials

29 -30, July 2021 | Mangalore, Karnataka, India | [www.gc-rasm.com](http://www.gc-rasm.com)

Call for  
Papers

### GC-RASM 2021

The scope of the 2021 Global Conference on Recent Advancements in Sustainable Materials (GC-RASM 2021) is to provide a forum for researchers, scientists, academicians, scholars and practitioners around the world to present papers on recent developments in the broad fields of Materials Sciences and Engineering. The GC-RASM 2021 aims to bring together leading academic scientists, researchers and research scholars to exchange innovative and novel ideas, share field trial experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on people, society and environment. We invite industrial and academic professionals from across the world in the fields of materials science and engineering to discuss and exchange ideas in the areas of world's great importance such as sustainable materials science and engineering.

### Call for papers

GC-RASM 2021 invites full-length original research articles from research scholars, faculty, scientists and industry professionals from India and across the world. Research articles and review papers not exceeding twelve pages in a single column format shall be submitted. The manuscripts should not have been published or under review in any of the journals or conference proceedings. Further, the manuscript should contain the name, e-mail id of the corresponding author and affiliation of co-authors.

Softcopy of the full length manuscripts (in word or pdf format) shall be submitted to [gc-rasm@ajiet.edu.in](mailto:gc-rasm@ajiet.edu.in)

OR

Please visit the website to submit through Elsevier's Editorial Manager Submission System. In this case, the e-mail submission is also mandatory.

### Topics (but NOT limited to)

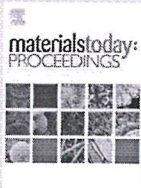
#### Advanced Materials

Innovative and sustainable materials  
Biomaterials  
Composite materials  
Energy storage and conversion materials  
Smart and intelligent materials  
Functional materials  
Nano materials  
Building materials  
Advances in structural materials and engineering  
Materials in marine structures  
Durability and corrosion of materials  
Chemical materials  
3D materials

Cryogenic materials  
Ceramics, shape memory alloys and nanomaterials  
Polymer science  
Hydrogels and Phase Change Materials  
Development of MAX phases and MXenes  
Smart/Intelligent materials/Intelligent systems  
Optical/Electronic/Magnetic materials  
Automation, control and information technology  
Magnetic materials and smart materials for specific applications  
MEMS and structural control  
Active materials in MEMS applications  
Materials property and characterisation  
Thin film technology

#### Manufacturing

Aerodynamics  
Manufacturing systems and simulation  
Machine design  
Machinery dynamics  
Nanotechnology  
Mechanical dynamics and vibration  
Mechanical design  
Casting technology and equipment  
Welding technology and equipment  
Plastic processing technology  
Cellular manufacturing  
Advanced manufacturing processes  
Laser processing  
Vibration engineering



### Publications

All the accepted papers will be published in the "Elsevier's Materials Today: Proceedings" - a journal specializing in the publication of conference proceedings.

The book of proceedings will be indexed in

SCOPUS | Conference Proceedings Citation Index (Thomson Reuters, Web of Science) | Inspec

### Registration

Registration form for GC-RASM 2021 is available in the Downloads link. Duly filled-in registration form shall be sent to [gc-rasm@ajiet.edu.in](mailto:gc-rasm@ajiet.edu.in) on or before 05, July 2021. Methods of payments have been given in the website. The payment of registration fee shall be made through internet banking, direct money transfer or credit/debit card facilities. Corresponding authors are strictly advised to send the copy of receipt/bill or payment proof with banking payment reference number along with the registration form.

### Publication Partner



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### Important dates

Last date for paper submission	25, May 2021
Last date for acceptance	25, June 2021
Registration commencement	001, April 2021
Registration deadline	05, July 2021
Camera Ready Paper (CRP) submission	05, July 2021
Release of Conference schedule	06, July 2021
Conference date(s)	29 - 30, July 2021

### Registration fee

	Indian authors (in Rs)	Foreign authors (in USD)
Graduate Students	7500	250
Research Scholars / Academicians	8000	250
Industry and Others	10000	300
Poster	4000	150

### Contact details

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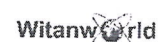
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Erode, Tamil Nadu  
INDIA

Global Conference on  
**Recent Advancements in Sustainable Materials**  
**(GC-RASM 2021)**

29 - 30, July 2021 | A.J. Institute of Engineering & Technology, Mangalore, India

**Program Schedule**

Date	Time	Event
29.07.2021	09.30 am to 10.00 am	Inaugural Function Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
29.07.2021	10.00 am	Keynote 1 <b>Ts. Dr. Tan Chye Lih</b> Head of Strategy and Risk management Division, SQM Faculty of Mechanical Engineering Technology, Universiti Malaysia Perlis (UNIMAP) Malaysia. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
29.07.2021	10.45 am	Keynote 2 <b>Dr. Manoharan P A</b> Dean - Innovations Chennai Institute of Technology & Director Robota Technology Innovation Pvt. Ltd., Chennai Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
29.07.2021	11.30 am to 05.10 pm	Session: <b>CH01</b> (online) Meeting link: <a href="https://meet.google.com/ufm-nbfm-zvi">meet.google.com/ufm-nbfm-zvi</a>
		Session : <b>CE01</b> (online) Meeting link: <a href="https://meet.google.com/anb-frvd-hir">meet.google.com/anb-frvd-hir</a>
		Session : <b>CE02</b> (online) Meeting link: <a href="https://meet.google.com/jzc-nnrg-ipb">meet.google.com/jzc-nnrg-ipb</a>
		Session : <b>ME01</b> (online) Meeting link: <a href="https://meet.google.com/iyy-cjcd-qqu">meet.google.com/iyy-cjcd-qqu</a>
		Session : <b>ME02</b> (online) Meeting link: <a href="https://meet.google.com/uij-nynh-vzf">meet.google.com/uij-nynh-vzf</a>
		Session : <b>MSE01</b> (online) Meeting link: <a href="https://meet.google.com/ica-txgc-upw">meet.google.com/ica-txgc-upw</a>
		Session : <b>PH01</b> (online) Meeting link: <a href="https://meet.google.com/nhp-skpa-tya">meet.google.com/nhp-skpa-tya</a>
		Session : <b>PH02</b> (online) Meeting link: <a href="https://meet.google.com/qaf-jumn-sjt">meet.google.com/qaf-jumn-sjt</a>

Program Schedule of GC-RASM 2021

30.07.2021	10.00 am	<p>Keynote 3  <b>Dr. Patel R N</b>                      Department of Electrical Engineering                      National Institute of Technology Raipur                      Raipur, Chhattisgarh,                      India.                      Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p>
30.07.2021	10.45 am	<p>Keynote 4  <b>Dr. Murugappan M</b>                      Department of ECE                      Kuwait College of Science and Technology                      (A Private University)                      Kuwait.                      Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p>
30.07.2021	11.30 am to 05.10 pm	<p>Session : <b>CH02</b> (online)                      Meeting link: <a href="https://meet.google.com/kvw-yfem-tpq">meet.google.com/kvw-yfem-tpq</a></p>
		<p>Session : <b>CE03</b> (online)                      Meeting link: <a href="https://meet.google.com/xem-exws-ngd">meet.google.com/xem-exws-ngd</a></p>
		<p>Session : <b>CE04</b> (online)                      Meeting link: <a href="https://meet.google.com/gcv-nnkc-vci">meet.google.com/gcv-nnkc-vci</a></p>
		<p>Session : <b>ME03</b> (online)                      Meeting link: <a href="https://meet.google.com/xsj-rtwd-jpo">meet.google.com/xsj-rtwd-jpo</a></p>
		<p>Session : <b>ME04</b> (online)                      Meeting link: <a href="https://meet.google.com/zop-twor-zuk">meet.google.com/zop-twor-zuk</a></p>
		<p>Session : <b>PH03</b> (online)                      Meeting link: <a href="https://meet.google.com/vwt-yvdm-oac">meet.google.com/vwt-yvdm-oac</a></p>
		<p>Session : <b>PH04</b> (online)                      Meeting link: <a href="https://meet.google.com/jmc-rshz-emw">meet.google.com/jmc-rshz-emw</a></p>
		<p>Session : <b>AME01</b> (online)                      Meeting link: <a href="https://meet.google.com/qfo-bjcg-sfg">meet.google.com/qfo-bjcg-sfg</a></p>
30.07.2021	05.15 pm	<p>Valedictory Function                      Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p>


CH - Applied Chemistry  
 CE - Civil Engineering  
 AME - Applied Mathematics & Electronics

PH - Applied Physics  
 ME- Mechanical Engineering  
 MSE- Materials & Metallurgical Engineering

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**Note**

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given
4. Mode of presentation should be powerpoint presentation(ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes(Queries)
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) GC-RASM Whatsapp group during presentation date(s).

  
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**Session: CE01**

Date: 29.07.2021

Time: 11.30 am to 04.50 pm

Session In-charge: **Mr. Vinod T Dsouza**Session in-charge Contact Number: **+91 9986449088**Google Meet ID/Link: **[meet.google.com/anb-frvd-hir](https://meet.google.com/anb-frvd-hir)**

Time	Paper ID	Paper Title
11.30 am	RASM 1002	Recycling and Reclamation of MSW Using MRF Techniques in Madurai
11.50 am	RASM 1016	Biological material in self-healing of concrete
12.10 pm	RASM 1049	Response of Self-Compacting Concrete Beams under Varying Temperature
12.30 pm	RASM 1050	Development and Strength Assessment of Sustainable High Strength Fiber Reinforced Concrete
12.50 pm	RASM 1067	Studies on Computing Compressive Strength of Zeolite Blended Concrete Using Multiple regression Analysis
02.00 pm	RASM 1069	Performance of Ternary Blend SCC With Ground Granulated Blast Furnace Slag and Metakaolin
02.20 pm	RASM 1070	Study of Effect of Confinement in Lightweight Aggregate Concrete using GFRP Tubes
02.40 pm	RASM 1071	Enhanced Concrete Performance in Cracking Resistance and Chloride Penetration using Hybrid Fiber Blends
03.00 pm	RASM 2016	Buckling of functionally graded carbon nanotube reinforced composite cylindrical panel with a cutout under uniaxial compression
03.20 pm	RASM 2035	Profound probing of Groundnut Shell Ash (GSA) as Pozzolanic Material in making innovative sustainable construction material
03.40 pm	RASM 2041	Simulation of dynamic processes in earth dams under shock impacts
04.10 pm	RASM 2053	Experimental Evaluation of Sorptivity For High Strength Concrete Reinforced with Zirconia Rich Glass Fiber and Basalt Fiber
04.30 pm	RASM 2060	Modeling elastic-plastic strains in earth dams

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**Session: CH01**

Date: 29.07.2021

Time: 11.30 am to 04.00 pm

Session In-charge: **Mrs. Prafulla K R**Session in-charge Contact Number: **+91 8618535744**Google Meet ID/Link: [meet.google.com/ufm-nbfm-zvi](https://meet.google.com/ufm-nbfm-zvi)

Time	Paper ID	Paper Title
11.30 am	RASM 1009	A study on the photo stability of Basella Rubra (Pasalai fruit) Extract with Nano Flower Zinc Oxide
11.50 am	RASM 1031	Structural analysis of surprisingly formed Cu II cubane through the specific cleavage of >C=N- and >C-S- of a Schiff base ligand and its biological activities
12.10 pm	RASM 1045	Synthesis and Application of Benzodiazepine compounds as corrosion inhibitor for mild steel in acid media
12.30 pm	RASM 1091	Effect of oxidants and dopant on morphology, crystallinity and optical absorbance of nano structural polyindole
12.50 pm	RASM 1092	Advance Recovery Approach for Efficient Recovery of Waste Lubricating Oil by Different Material Formulations
02.00 pm	RASM 1093	Structural, Morphological and Optical Studies of CdSe Quantum Films Synthesized by Ultrasonic Vibration Assisted Drop-Casting Method
02.20 pm	RASM 1097	A simple method for the synthesis of anatase-rutile mixed phase TiO <sub>2</sub> using a simple precursor and higher visible-light photocatalytic activity of Co-doped TiO <sub>2</sub>
02.40 pm	RASM 2011	Multiobjective Optimization of Thermophysical Properties of Indonesian fly-ash nanofluid
03.00 pm	RASM 2026	Effect of Temperature on Yield and Nanostructure of Multiple Layers of Carbon Nanotubes
03.20 pm	RASM 2036	Synthesis and investigation of structural, morphological, thermal behaviour, and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> -MnO <sub>2</sub> nano-composite
03.40 pm	RASM 2044	Chromium Oxide Regulated Nanoparticles Biosynthesis in Manihot Esculenta Leaf Extract
04.00 pm	RASM 3012	Role of Critical Area in nanofiltration of fatty acids by polymer membrane

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**Session: CE02**

Date: 29.07.2021

Time: 11.30 am to 04.50 pm

Session In-charge: **Mrs. Vishmitha Shetty**Session in-charge Contact Number: **+91 9743702278**Google Meet ID/Link: **[meet.google.com/jzc-nnrg-ipb](https://meet.google.com/jzc-nnrg-ipb)**

Time	Paper ID	Paper Title
11.30 am	RASM 2067	Valorization of Soda Lime Glass in Cement Sand Matrix
11.50 am	RASM 2074	Enhancement on the Properties of Recycled Coarse Aggregate through Bio-deposition – An Experimental Study
12.10 pm	RASM 2081	Modelling of AOP removal of $\beta$ - blocker Atenolol from wastewater
12.30 pm	RASM 2082	Multiple approach to crash analysis toward battle robot under impact loads
12.50 pm	RASM 2084	Prediction of mechanical properties for Polyetheretherketone composite reinforced with Graphene and Titanium powder using Artificial Neural Network
02.00 pm	RASM 2090	Feasibility development of anchored geogrid for the enhancement of CBR value in weak subgrade soil
02.20 pm	RASM 3003	Design of an impact attenuator for passive safety on roads
02.40 pm	RASM 3029	Combined effect of metakaolin and hybrid fibers on the strength properties of high performance concrete
03.00 pm	RASM 3038	Durability of fly ash and silica fume based composite fiber reinforced high-performance concrete subjected to acid attack
03.20 pm	RASM 3049	Carbon Dioxide And GHG Emission Reduction by Utilization of Groundnut Husk Ash in Concrete
03.40 pm	RASM 3056	Recycled Substance Evaluation and Effect on Fire Resistance Structures
04.10 pm	RASM 3089	Evaluate the Optimum dosage of Nano Material on Self Sensing Properties for Nano Cement Composites
04.30 pm	RASM 4003	Comparative Study of Confining Reinforcement Used for the Rectangular Concrete Short Column

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**Session: ME01**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Prasad B G**Session in-charge Contact Number: **+91 9740901154**Google Meet ID/Link: **[meet.google.com/iij-cjcd-qqu](https://meet.google.com/iij-cjcd-qqu)**

Time	Paper ID	Paper Title
11.30 am	RASM 1032	Numerical Simulation of Effect of Geometry, Material on Thermal Performance of Engine Cylinder Fins
11.50 am	RASM 1043	An analytical study on electroosmotic flow within a microchannel between two parallel plates without the Debye–Huckel approximation
12.10 pm	RASM 1044	Generation of Square Micropattern using Electrochemical Micromachining
12.30 pm	RASM 1047	Numerical Simulation of Savonius Rotors used for Low Wind Speed Application
12.50 pm	RASM 1086	An investigation on the performance and viability of a hybrid twisted blade profile for a Horizontal Axis Micro Wind Turbine
02.00 pm	RASM 2004	The Use of Entropy-Based GRA Approach to Analyze and Optimize the Wire Electrical Discharge Machining Process for Nitronic-30
02.20 pm	RASM 2019	Impact of Mach Number on the Flow Pattern in Suddenly Expanded Duct
02.40 pm	RASM 2030	An Investigation on Fatigue Behaviour of Bi-Directional Fibre Reinforced Polymer Nano Composite Using FEA Solver
03.00 pm	RASM 2031	Migration Induced Localization of Multiwalled Carbon Nanotubes in PP Phase of PP/ABS blend and their Hybrid Composites: Influence on Mechanical and Thermal Properties
03.20 pm	RASM 2032	Synthesis and characterization of acid treated reduced graphene oxide
03.40 pm	RASM 2040	Effect of Ethylene glycol mono acetate as an oxygenated fuel additive on emission and performance characteristics of diesel engine fueled with diesel-cottonseed biodiesel
04.10 pm	RASM 2043	Effect of different electrode angle as well as weld direction on the bead geometry of Submerged Arc Welding process
04.30 pm	RASM 2051	The effect of cutting fluid in improving the machinability of Inconel 718 using ceramic AS20 tool
04.50 pm	RASM 2054	Design of a 6 DOF robot manipulator for 3D printed construction

**Session: ME02**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Karthik**Session in-charge Contact Number: **+91 8722440399**Google Meet ID/Link: **[meet.google.com/uij-nynh-vzf](https://meet.google.com/uij-nynh-vzf)**

Time	Paper ID	Paper Title
11.30 am	RASM 2056	Lateral torsional buckling of steel beams strengthened by steel plate
11.50 am	RASM 2073	Significance of dynamic control on suddenly expanded flow when nozzles are over, under, and perfectly expanded
12.10 pm	RASM 2077	Emission control exploring the energy and exergy analysis for turbines of a 500MW coal-based conventional power plant
12.30 pm	RASM 2083	Experimental study on near-dry wire-cut electrical discharge machining of Inconel 718 alloy
12.50 pm	RASM 2086	Hydroelastic analysis of floating long viscoelastic plate in shallow water
02.00 pm	RASM 2093	Effect of water pressure and temperature on spherical float of level sensing auto drain valve
02.20 pm	RASM 2095	Effect of sawdust addition on the mechanical and water absorption properties of Banana-Sisal/Epoxy natural fiber composites
02.40 pm	RASM 3001	Design of a fixture for wire-cut EDM: a generic approach
03.00 pm	RASM 3015	CFD Study on the Effect of Nanofluids in Natural Circulation Loop With Side Heater
03.20 pm	RASM 3022	A Critical Study and Analysis of Process Parameters of Selective Laser Sintering Rapid Prototyping
03.40 pm	RASM 3041	Effect of particle damper technique on tribological properties during hard turning process
04.10 pm	RASM 3046	Bending Response Optimization of an Ionic Polymer-Metal Composite Actuator Using Orthogonal Array Method
04.30 pm	RASM 3053	Design of Multipurpose Mechanical Machine
04.50 pm	RASM 3055	Effect of SMAW Flux Composition on the Metallurgy of Welded Duplex Stainless Steel

**Session: MSE01**

Date: 29.07.2021

Time: 11.30 am to 04.40 pm

Session In-charge: **Mr. Sudheer Kini**Session in-charge Contact Number: **+91 9686380597**Google Meet ID/Link: **[meet.google.com/ica-txgc-upw](https://meet.google.com/ica-txgc-upw)**

Time	Paper ID	Paper Title
11.30 am	RASM 1075	Exploring Potential of Glass Surface Immobilized Short Antimicrobial Peptide (AMP) as Antibacterial Coatings
11.50 am	RASM 1094	AHSS welding using undermatching filler wires and process advantages with P-GMAW
12.10 pm	RASM 2024	Designing a short, potent, pore-forming antimicrobial peptide
12.30 pm	RASM 2061	Effect of Filler Wire Strength on High Strength Low Alloy Steels
12.50 pm	RASM 2063	Pressure Dependent Chemical Changes Of Adsorbed Water In MIL-47 (V) By Raman Spectroscopy
02.00 pm	RASM 4012	Stabilization of Cr <sup>+6</sup> in Sodium Dichromate plant residue through Down Draft Sintering (DDS) technique and its application in manufacture of building bricks
02.20 pm	RASM 5057	Thermodynamic analysis of thermochemical energy storage system based on AB5 type hydride pairs
02.40 pm	RASM 4042	Mechanochemical Synthesis and Microstructural Characterisation of CaTiO <sub>3</sub> Powders
03.00 pm	RASM 4071	Dielectric Properties of Steel Melting Shop (SMS) Slag
03.20 pm	RASM 5059	Influence of Fibers Hybridization on the Tensile and Flexural Properties of Hemp/Bagasse Reinforced Poly-lactic Acid (PLA)
03.40 pm	RASM 6026	Comparative assessment and statistical data of admixed rosemary and castor oil on the corrosion inhibition of high carbon and P4 low carbon mold steels
04.00 pm	RASM 6027	Comparative data on the protection performance of celery, pomegranate and green tea distillates on mild steel in weak H <sub>2</sub> SO <sub>4</sub> solution
04.20 pm	RASM 5086	Effect of Wave Shift of Porous Slab on Thermo-Hydraulic Transport Characteristics of Laminar Flow Through a Wavy Channel
04.40 pm	RASM 4033	A simplified bibliometric mapping and analysis about sustainable polymers

**Session: PH01**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mrs. Prathiksha Rai**Session in-charge Contact Number: **+91 8884935545**Google Meet ID/Link: **[meet.google.com/nhp-skpa-tya](https://meet.google.com/nhp-skpa-tya)**

Time	Paper ID	Paper Title
11.30 am	RASM 1011	Polyaniline-CuO Nanocomposite: Electrical, Structural and Sensor Properties
11.50 am	RASM 1036	Conducting polyaniline doped with zinc tungstate matrix film as gas sensing composite
12.10 pm	RASM 1048	Theoretical investigation of, ferroelectric Phase transition, and Tangent delta in CsH <sub>2</sub> AsO <sub>4</sub> (CDA) crystal
12.30 pm	RASM 1055	Synthesis of Marigold-like ZnIn <sub>2</sub> S <sub>4</sub> Microspheres at Low-Temperature
12.50 pm	RASM 1058	Vegetative voltaic cell from ethanolic leaf extract from Prosopis juliflora plant
02.00 pm	RASM 1061	X-ray Structure of 4-Aminopyridinium-Oxalate-Oxalic acid-Hydrate (1/1/0.5/0.5) And Its Characterization
02.20 pm	RASM 1063	Investigation of Dielectric properties and Ferroelectric phase transition in lead-free AgNbO <sub>3</sub>
02.40 pm	RASM 1072	Optical and Upconversion Properties of Bismuth Tellurite Glasses Co-doped With Er <sup>+3</sup> -Yb <sup>+3</sup> Ions
03.00 pm	RASM 1076	Excess Thermodynamic Properties of Binary Liquid Mixture at Different Temperature
03.20 pm	RASM 1082	Ultrasonic Study of Molecular Interactions in Organic Liquid with CCl <sub>4</sub> at Different Temperature
03.40 pm	RASM 1088	Preparation of UV, LASER and white light sensitive conducting polymer poly (3, 4-ethylenedioxythiophene) "PEDOT" nanoparticles
04.10 pm	RASM 1090	Effycacy Of Photoluminescenes And Magnetic Behavior Of Ce Doped ZnO Nanoparticles By Solid State Reaction Method
04.30 pm	RASM 1098	Third order measurements, Thermal and Mechanical Stress Tolerance Studies of a Nonlinear Borate Family hybrid crystal towards Optoelectronic Applications
04.50 pm	RASM 2001	Experimental investigations on the beta attenuation properties of lead monoxide – polycarbonate composite films.

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**Session: PH02**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mrs.Divya A**Session in-charge Contact Number: **+91 9480671109**Google Meet ID/Link: **[meet.google.com/qaf-jumn-sit](https://meet.google.com/qaf-jumn-sit)**

Time	Paper ID	Paper Title
11.30 am	RASM 2007	Thermal and optoelectrical properties of cobalt doped and undoped strontium L(+) tartrate pentahydrate single crystals
11.50 am	RASM 2008	Magnetic Susceptibility and frequency dependence ac conductivity of PPY/PANI/V <sub>2</sub> O <sub>5</sub> nanosheets
12.10 pm	RASM 2015	Spectroscopic studies of Transition metal ion-doped borate glasses for optical applications
12.30 pm	RASM 2025	Enhanced Properties of Zn <sup>2+</sup> Substituted Cr <sub>2</sub> O <sub>3</sub> Nanoparticles In Escalating The Distillate Yield Of Acrylic Pyramid Solar Still
12.50 pm	RASM 2029	Imidazole added Sulphamic Acid Single Crystals with Optimal Properties for Optoelectric Devices
02.00 pm	RASM 2034	Structural and Spectroscopic Analysis of Pure Phase Hexagonal Wurtzite ZnO Nanoparticles Synthesized by Sol-Gel
02.20 pm	RASM 2039	One-pot hydrothermal synthesis of polypyrrole/Fe <sub>2</sub> O <sub>3</sub> nano-seeds for energy storage application
02.40 pm	RASM 2042	Effect on Lotus leaf for Dielectric Applications
03.00 pm	RASM 2048	Structural and morphological properties of bismuth telluride nanoparticles synthesized by two-step hydrothermal method
03.20 pm	RASM 2058	Melting phenomena of Cu <sub>0.25</sub> Ni <sub>0.75</sub> bimetallic alloy: A Molecular Dynamics Approach
03.40 pm	RASM 2066	Synthesis and characterization of Manganese doping on NiO nanoparticles and its supercapacitor applications
04.10 pm	RASM 2069	Ion transport property studies of a new TiO <sub>2</sub> dispersed Na <sup>+</sup> ion conducting nanocomposite polymer electrolytes
04.30 pm	RASM 2075	Factors influencing mobility in ITO thin films and the consequent effects on optical and NIR surface plasmon resonance properties
04.50 pm	RASM 2080	RF-sputtered V <sub>2</sub> O <sub>5</sub> thin films on two different glass substrates

**Session: CH02**

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Mrs. Sharanya P S**Session in-charge Contact Number: **+91 8105763404**Google Meet ID/Link: **[meet.google.com/kvw-yfem-tpq](https://meet.google.com/kvw-yfem-tpq)**

Time	Paper ID	Paper Title
11.30 am	RASM 3014	Investigation on Solid State Pyrolytic Decomposition of Bimetallic Fumarate and Tartrate Precursors of Co (II), Ni (II) and Zn (II) with Manganese
11.50 am	RASM 1009	A study on the photo stability of Basella Rubra (Pasalai fruit) Extract with Nano Flower Zinc Oxide
12.10 pm	RASM 3068	Influence of Cu <sup>2+</sup> substitution on structural and optical properties of Mg-Zn ferrite nanoparticles
12.30 pm	RASM 3071	Evaluation of solvent transport and cure characteristics of chlorobutyl rubber graphene oxide nanocomposites
12.50 pm	RASM 4002	Synthesis, Single Crystal X Ray Diffraction analysis and thermogravimetric studies of a novel Cu (II) based metal organic frame work from Isophthalate and Pyridine linkers
02.00 pm	RASM 4004	Synthesis characterization DC conductivity and EMI shielding studies of Iron-decorated Polypyrrole-fly ash nanocomposites
02.20 pm	RASM 4021	Peroral delivery of risedronate sodium for treatment of osteoporosis
02.40 pm	RASM 4023	Development of Green Geo-Adsorbent Pellets from Low Fire Clay for Possible Use in Methylene Blue Removal in Aquaculture
03.00 pm	RASM 4082	In Vitro Study of Green Synthesized ZnO Nanoparticles on Human Lung Cancer Cell Lines
03.20 pm	RASM 5070	Four-parameter model for the thermodynamic and microscopic properties of AlCu liquid alloys at 1373 K
03.40 pm	RASM 5083	Anti-bacterial and anticancer activities of Quinoxaline-2-carbohydrazide-N-oxide compounds
04.10 pm	RASM 5092	Preparation and characterization of Caprine bone derived mineral substituted Hydroxyapatite/ Phyllanthus acidus extract for biomedical applications

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**Session: CE03**

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Mr. Saketh Shetty**Session in-charge Contact Number: **+91 7045136986**Google Meet ID/Link: **[meet.google.com/xem-exws-ngd](https://meet.google.com/xem-exws-ngd)**

Time	Paper ID	Paper Title
11.30 am	RASM 4005	The combined effect of GGBS and low volume fibres on the low-velocity impact and mechanical properties of Self-compacting concrete
11.50 am	RASM 4006	Arriving the Suitability of Polyethylene Wastes in Flexible Pavements: An Experimental Approach
12.10 pm	RASM 4010	Temperature Stresses in Functionally Graded (FGM) Material Plates using Deformation Theory – Analytical Approach
12.30 pm	RASM 4024	Flexural Shear Behavior of FRHSC Beams with Fibers only in Shear Span
12.50 pm	RASM 4069	Investigating the Performance of Self-Compacting Concrete Pavement Containing GGBS
02.00 pm	RASM 4086	Effect of PCB as partial replacement of fine aggregate and coarse aggregate in concrete
02.20 pm	RASM 4088	Finite Element Analysis of Polymeric and Cementitious materials to secure Cracks in concrete
02.40 pm	RASM 4093	Stabilization of Soil Nailed Slope by Flexible Facing
03.00 pm	RASM 4095	Modelling the Hardened Properties of Steel Fiber Reinforced Concrete using ANN
03.20 pm	RASM 5002	Evaluation of Strength Parameters of Ultra-Fine Flyash and Nanosilica Incorporated High-Performance Concrete
03.40 pm	RASM 5006	Comparative study of various flexible facing materials for soil nailed slopes
04.10 pm	RASM 5007	Assessment of Asphalt Binder and Mixes Modified with Zycotherm and Sulphur

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**Session: PH04**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Dr. Sadananda Kumar**Session in-charge Contact Number: **+91 9972011911**Google Meet ID/Link: **[meet.google.com/jmc-rshz-emw](https://meet.google.com/jmc-rshz-emw)**

Time	Paper ID	Paper Title
11.30 am	RASM 4018	Low temperature synthesis and influence of Ce 3+ substitution on structural and magnetic properties of nanocrystalline cobalt ferrite using citrate precursor sol-gel method
11.50 am	RASM 4025	Parametric amplification of acoustical phonons in semiconductor magneto-plasmas: quantum effects
12.10 pm	RASM 4038	Green Synthesis of ZnO and CuO NPs using Ficus benghalensis Leaf Extract and their Comparative study for Electrode Materials for High performance Supercapacitor Application
12.30 pm	RASM 4040	Steady-state and transient Raman gain coefficients of weakly-polar magnetoactive doped semiconductors
12.50 pm	RASM 4083	Preparation, Characterization of SF- HPMC blend films and SF microparticles
02.00 pm	RASM 4091	Elastic and mechanical properties of titanium diboride under high pressure
02.20 pm	RASM 5025	Analysis of the thermoluminescence glow curve of CaSO <sub>4</sub> :Dy phosphor by simplified general One Trap Differential equation.
02.40 pm	RASM 5028	Nanocrystalline ceramic oxide CaBiNbO <sub>6</sub> - An optically active material
03.00 pm	RASM 5045	Combustion Synthesis and Luminescence Characterization of Dy <sup>3+</sup> Activated Li <sub>2</sub> Sr <sub>2</sub> Al <sub>2</sub> PO <sub>4</sub> F <sub>9</sub> Phosphor
03.20 pm	RASM 5047	Symmetries in the properties of mixing of AgCu liquid alloys at 1423 K
03.40 pm	RASM 5061	Influence of the properties of p-a-Si:H layer and the work function of front contact on silicon heterojunction solar cell performance
04.10 pm	RASM 5069	Synthesis and luminescence properties of Ce <sup>3+</sup> doped (Sr, Ba) <sub>2</sub> GeO <sub>4</sub> phosphors
04.30 pm	RASM 5076	Structural, optical and Magnetic properties of Yttrium Aluminium Bromate (YAB) nanomaterial, prepared by low cost sol-gel chemical method
04.50 pm	RASM 5082	Structural and Electrical Investigation of 'Bi' doped SmFeO <sub>3</sub> -BaTiO <sub>3</sub> perovskite system

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**Session: AME01**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Vilma Dsouza**Session in-charge Contact Number: **+91 9980016473**Google Meet ID/Link: **[meet.google.com/qfo-bjcq-sfq](https://meet.google.com/qfo-bjcq-sfq)**

Time	Paper ID	Paper Title
11.30 am	RASM 2023	Stability Issues And Mitigating Techniques In The AC Grid System
11.50 am	RASM 2028	Robustness Evaluation of sub-22nm FinFETs Electrical Characteristics Affected by Physical Variability
12.10 pm	RASM 2059	Study of radiation shielding materials on Microstrip Patch Antenna for sustainability
12.30 pm	RASM 2068	Configuration of phosphorus doping in silicene nanoribbons in the presence of an external electric field
12.50 pm	RASM 3021	Analysis of Hybrid Tandem Solar Cell using Neural Network
02.00 pm	RASM 4016	Development of an Ammonia gas sensor employing an inter-digital capacitive structure coated with Mn <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nano-composite
02.20 pm	RASM 4060	Novel graphene-based OPFET for optoelectronic applications
02.40 pm	RASM 2099	Bipolar Intuitionistic Fuzzy Soft Expert Score Functions
03.00 pm	RASM 3026	Multiple Slips and Heat Source Effects on Mhd Stagnation Point Flow of Casson Fluid Over a Stretching Sheet in the Presence of Chemical Reaction
03.20 pm	RASM 3037	Characteristics Of Mhd Casson Fluid Past An Inclined Vertical Porous Plate
03.40 pm	RASM 3043	Free vibrations of rigidly fixed electro-magneto non-local generalized thermoelastic cylinder with voids material
04.10 pm	RASM 4090	Numerically approach for enhanced mass transfer of Bio-convection on Magneto-hydrodynamic Carreau fluid flow through a nonlinear stretching surface
04.30 pm	RASM 5009	Effects of Crack Location and Depths for an Iron Bar: A Finite Element approach
04.50 pm	RASM 2099	Bipolar Intuitionistic Fuzzy Soft Expert Score Functions

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**Session: CE04**

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Mr. John Prakash Veigas**Session in-charge Contact Number: **+91 9482038836**Google Meet ID/Link: **[meet.google.com/qcv-nnkc-vcj](https://meet.google.com/qcv-nnkc-vcj)**

Time	Paper ID	Paper Title
11.30 am	RASM 5012	Evaluation of Cerium Oxide Nanoparticle as Corrosion Inhibitor for Mild Steel
11.50 am	RASM 5027	Influence of Glass Powder and Hydrated Lime on Strength Properties of Concrete
12.10 pm	RASM 5033	Development of Pavement Quality Concrete with SCM's, Fibers and Graphite
12.30 pm	RASM 5046	Experimental investigation on strength properties of high performance concrete produced using artificial and natural sand
12.50 pm	RASM 5053	Incinerated municipal solid waste bottom ash bricks: a sustainable and cost-efficient building material
02.00 pm	RASM 5055	Effect of Elevated Temperature on Stress-Strain Behaviour of Self-Compacting Concrete
02.20 pm	RASM 5075	Fly-Ash Conjoined Ground Granulated Blast Furnace Slag Proxy for Fresh and Hardened Responses
02.40 pm	RASM 5085	Studies on Usage of Natural Fibers and Eco Sand for Sustainable Concreting
03.00 pm	RASM 7003	3D Concrete Printing Matrix Reinforced with Geogrid
03.20 pm	RASM 7005	Experimental Study on Light Weight Panel using Phosphogypsum
03.40 pm	RASM 7006	Utilization of Plastic Waste and ProsopisJuliflora Ash in Making Floor Tiles
04.10 pm	RASM 7007	Study on Properties of Bio-Bricks

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**Session: ME03**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Dr. Sreejith B K**Session in-charge Contact Number: **+91 9747335321**Google Meet ID/Link: **meet.google.com/xsj-rtwd-jpo**

Time	Paper ID	Paper Title
11.30 am	RASM 3061	Experimental investigations of wire lag phenomena on wire electrical discharge machining of M2 tool steel
11.50 am	RASM 3063	Microstructure evolution and phase transformation of ZrB <sub>2</sub> -ZrO <sub>2</sub> -MoSi <sub>2</sub> -Al coating during annealing treatment
12.10 pm	RASM 3067	Experimental comparative study of banana fiber composite with glass fiber composite material using Taguchi method
12.30 pm	RASM 3069	Effect of CNT content on microstructure and hardness of AISi/MWCNT Nano composite
12.50 pm	RASM 3076	Force Transmissibility of the Viscoelastic Material Used as Vibration Isolation in Power Loom
02.00 pm	RASM 3095	Mathematical modeling of various forces acting on piston rod packing rings and determining its basics dimensions
02.20 pm	RASM 4001	Tribological Analysis of Al-Si alloy based MMCs at Elevated Temperature
02.40 pm	RASM 4019	Evaluation of Normalized Thickness Variation of Superplastic Cone Forming
03.00 pm	RASM 4036	Experimental Investigation on Compression Strength of EPOXY/PVC Blend with Different Fibre Glass Reinforcements Using Taguchi's L 27 Orthogonal Array
03.20 pm	RASM 4043	Experimental Investigations on triple concentric tube heat Exchanger
03.40 pm	RASM 4046	Numerical Study of Fluid Flow and Heat Transfer for Flow of Cu-Al <sub>2</sub> O <sub>3</sub> -Water Hybrid Nanofluid in a Microchannel Heat Sink
04.10 pm	RASM 4049	Optimization of cutting forces and tool-tip temperature in turning of nickel-based superalloy using FE simulation
04.30 pm	RASM 4051	Acoustic emission test method for investigation of M250 maraging steel pressure vessels for aerospace applications
04.50 pm	RASM 4053	Analysis and Optimization of Nozzle Distance during Turning of EN-31 Steel Using Minimum Quantity Lubrication

**Session: ME04**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Sunil Kumar S**Session in-charge Contact Number: **+91 7406903242**Google Meet ID/Link: **[meet.google.com/zop-twor-zuk](https://meet.google.com/zop-twor-zuk)**

Time	Paper ID	Paper Title
11.30 am	RASM 4075	Trajectory Features and Energy Dissipation of Conventional and Modified (Deflector) Ski-Jump Bucket
11.50 am	RASM 4080	Comparative Analysis of Drop Impact Resistance for Different Polymer Based Materials Used for Hearing Aid Casing
12.10 pm	RASM 5018	Tensile Behavior of Pre-Stress Corroded and Post Hydrogen Embrittled Spring Steel
12.30 pm	RASM 5021	Experimental study on the stability and flame characteristics of LPG flames in O <sub>2</sub> /N <sub>2</sub> and O <sub>2</sub> /CO <sub>2</sub> environment
12.50 pm	RASM 5032	Performance assessment of valve regulated lead acid battery for E-bike in field test
02.00 pm	RASM 5034	Comparative modal analysis of cantilever beam made of biocomposites using finite element analysis
02.20 pm	RASM 5040	Effect of hydrogen flow rates on the performance of two biodiesels fuelled dual fuel engine
02.40 pm	RASM 5056	Environmentally Assisted Fracture Behavior of Edge and Corner Notched Spring Steel
03.00 pm	RASM 5072	Effect of injection timing on the performance of Ceiba Pentandra biodiesel powered dual fuel engine
03.20 pm	RASM 5089	Design optimization of strain gauge mounting cross section length of strain gauge balance component for wind tunnel application
03.40 pm	RASM 5090	Artificial neural network modelling for average surface roughness in citrate stabilized electroless nickel boron coatings
04.10 pm	RASM 7001	Dislocation and Deformation Analysis of Cu-Ni Thin Films during Nanoindentation using Molecular Dynamics Simulation Approach
04.30 pm	RASM 7002	Experimental Analysis on Roof Construction
04.50 pm	RASM 7008	Experimental Study of Single Bed Prototype adsorption Refrigeration Unit Using Low Grade Heat Energy

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**Session: PH03**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Kiran Kumar V G**Session in-charge Contact Number: **+91 9845264798**Google Meet ID/Link: **[meet.google.com/vwt-yvdm-oac](https://meet.google.com/vwt-yvdm-oac)**

Time	Paper ID	Paper Title
11.30 am	RASM 2087	Nanostructure Wrinkle Thin Films on Flexible Substrate: Tunable Optical Properties
11.50 am	RASM 2088	Investigation of DFT on the structural and electronic properties of silicene nanoribbons when adsorption of Li, H, Fe
12.10 pm	RASM 2091	Structural characterization and investigation of magneto-optic and multiferroic properties of nanostructured $\text{CoFe}_2\text{O}_4$ prepared by sol-gel derived facile chemical route
12.30 pm	RASM 3008	Honey Based Hydrogel as Delivery System for Wound Healing
12.50 pm	RASM 3016	Optimum Utilization of Ceramic Tile Waste for Enhancing Concrete Properties
02.00 pm	RASM 3024	UV-Vis absorption Spectroscopic Analysis of Oxyhalide Glass System
02.20 pm	RASM 3028	Theoretical investigation, of Cochran's mode frequency, and electrical permittivity of $\text{KH}_2\text{AsO}_4$ (KDA) crystal by using Zuberav's statistical Green function technique
02.40 pm	RASM 3040	DSSC using <i>Wrightia tinctoria</i> (Roxb.) R Br.: A TRIAL
03.00 pm	RASM 3047	Thiourea doped $\text{TiO}_2$ : Structural, Optical and Electrochemical Properties
03.20 pm	RASM 3051	Angular Dependence of Localized Mode of Chalcogenide Photonic Crystal
03.40 pm	RASM 3052	Theoretical study on various contributions to the magnetization of $\text{Pb}_{1-x}\text{Eu}_x\text{Se}$
04.10 pm	RASM 3060	Structural, Morphological and Electrical Properties of PVA/Au Nanocomposite Films
04.30 pm	RASM 3096	Investigation of structural and electrical properties of nickel chloride doped Pyrrole Aniline Copolymer
04.50 pm	RASM 4014	Study of Structural and Electrochemical Properties of Ilmenite ( $\text{FeTiO}_3$ ) doped $\text{TiO}_2$

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# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

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<b>NAME OF THE EVENT:</b>	<b>Global Conference of Recent Advances in Sustainable Materials (GC-RASM 2021)</b>
<b>ORGANISING DEPARTMENT / COMMITTEE :</b>	<b>Department of Civil Engineering, Department of Mechanical Engineering, Department of Basic Sciences and Humanities.</b>
<b>DATE :</b>	<b>29-07-2021 and 30-07-2021</b>
<b>NAME OF THE RESOURCE PERSON :</b>	<p>Keynote 1 – 29.07-2021 <b>Ts. Dr. Tan Chye Lih</b> Head of Strategy and Risk management Division, SQM Faculty of Mechanical Engineering Technology, Universiti Malaysia Perlis (UNIMAP) Malaysia. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p> <p>Keynote 2 – 29.07-2021 <b>Dr. Manoharan P A</b> Dean - Innovations Chennai Institute of Technology &amp; Director Robota Technology Innovation Pvt. Ltd., Chennai Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p> <p>Keynote 3 – 30.07-2021 <b>Dr. Patel R N</b> Department of Electrical Engineering National Institute of Technology Raipur Raipur, Chhattisgarh, India. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p> <p>Keynote 4 – 30.07-2021 <b>Dr. Murugappan M</b> Department of ECE Kuwait College of Science and Technology (A Private University) Kuwait. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p>
<b>NO OF PARTICIPANTS :</b>	<b>211 participants in Virtual mode &amp; 02 participants in physical mode.</b>
<b>Conference publication</b>	<b><a href="https://www.sciencedirect.com/journal/materials-today-proceedings/vol/49/part/P5">https://www.sciencedirect.com/journal/materials-today-proceedings/vol/49/part/P5</a></b>

A two day Global Conference of Recent Advances in Sustainable Materials (GC-RASM 2021) was inaugurated on 29-07-2021 in Seminar Hall-1 at AJIET Campus. The inaugural function started by 9.35 a.m. and the delegates were escorted to dais by Dr. Nagesh H. R. and Dr. Sangeetha D. M. The function was presided by Mrs. Ashritha P. Shetty - Director, LMET(R), Principal Dr. Shantharama Rai C., Chief

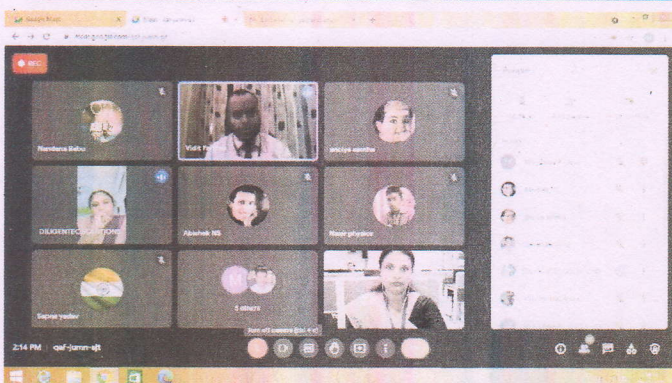
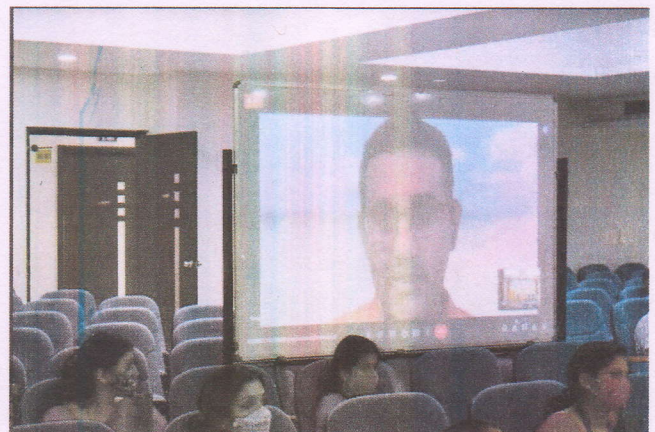
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convenor of GC-RDCT 2021 Dr. Nagesh H.R., Chief convenor of GC-RASM 2021 Dr. Sangeetha D.M. and HOD's of various departments. Ms. Shraddha and Team evoked the blessings of almighty with a prayer song. Dr. Nagesh H.R. welcomed the gathering and Dr. Sangeetha D.M. briefed about the conference. The CMS partner for the conference Dr. Thangaprakash S. from Diligentec solutions released the conference sovinier vitually and delivered a talk on about the conference. Principal Dr. Shatharama Rai C. addressed the gathering about the Institute and the confrence. Presidential address was delivered by Mrs. Ashritha P. Shetty and congratulated the team for organizing the conference at international standards. Vote of Thanks was delivered by Mrs. Smitha Shetty.

Day 1 - The program started with Keynote session 1 at 10.15 a.m., followed by keynote session 2 at 10.45 a.m. Altogether around 8 parallel sessions started by 11.30 a.m. and held virtually using Google meet platform. Around 89 papers were presented virtually and 02 paper in physical mode out of 107 registered papers.

Day 2- 30.7.2021: Keynote session 3 started by 10.00a.m followed by Keynote session 4 at 10.45 a.m. Thereafter nine (8) parallel sessions were started simultaneously by 11.30 a.m. Around 98 papers were presented virtually out of 106 registered papers.

Valedictory: In the evening by 4.30 p.m. valedictory session was held virtually via Google Meet. Mrs. Smitha Shetty welcomed the gathering. Dr. Nagesh H.R. delivered Valedictory Speech. Principal Dr. Shantharama Rai C., delivered the presidential address. Few researchers and Session chairs shared their valuable feedbacks. Dr. Thangapraksh S., shared the concluding remarks of the conference followed by Vote of thanks by Dr. Sangeetha D.M. The session concluded by 5.00p.m.



*Sangeetha*  
CONVENOR

CC To:

1. President, LMET,
2. Vice President, LMET


*N*  
PRINCIPAL

Principal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006

2021 Global Conference on

# Recent Developments in Computer and Communication Technologies

29 – 30, July 2021 | Mangalore, Karnataka, India | www.gc-rdct.com



## GC-RDCT 2021

The scope of the 2021 Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2021) is to provide a forum for researchers, scientists, academicians, scholars and practitioners around the world to present papers on recent developments in the broad fields of Computers and Communication technologies. The GC-RDCT 2021 aims to bring together leading academic scientists, researchers and research scholars to exchange innovative and novel ideas, share field trial experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on people, society and environment. We invite industrial and academic professionals from across the world in the fields of computer and communication technologies to discuss and exchange ideas in the areas of world's great importance such as computer, electronics, information and communication technologies. The conference also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the above fields.

## Call for papers

GC-RDCT 2021 invites full length original research contributions from engineering professionals from industries, R&D organisations, academic institutions, government departments and research scholars from across the world. Full length original research contributions and review articles in the single column format shall be submitted. There is NO PAGE LIMIT. The manuscript template shall be found in the downloads section. The manuscript should contribute original research ideas, developmental ideas, analysis, findings, results, etc. The manuscript should not have been published in any journals/magazines or conference proceedings and not under review in any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors.

Soft copy of the full length manuscripts (in .doc and .pdf) shall be submitted to gc-rdct@ajiet.edu.in.

## Topics (but NOT limited to)

**Track 1 - Electronics and Communication Engineering**  
Broad Band Communication | Computer and Intelligent Communication | Mobile and Optical Communication | Wireless Communication | Mobile and Optical Networks | Wireless Sensor Networks | Network Security | Advanced VLSI Systems  
Embedded Wireless Systems | Medical Informatics | Hardware Engineering | Mechatronics | Automation

**Track 2 - Computer Science and Engineering**  
Geo-Informative Systems | Grid Computing | Pervasive Computing | Digital Image and Video Processing Computer Vision and Image Analysis | Data Mining and Cloud Computing | Computer Architecture | Computer Networks | Distributed Computing | Artificial Intelligence & Soft Computing | Optimization Techniques | Human-Computer Interaction | Theoretical Computer Science | Computer Applications | Expert Systems

**Track 3 - Electrical Engineering**  
Electrical and Electronic Materials and Process | Semiconductor Technology | Power Systems and Energy Engineering  
Soft Computing Techniques in Power Systems | Transmission and Distribution System and Apparatus | Instrumentation & Feedback Control Systems | Power Electronics & Energy Efficient Drives | Renewable Power Conversion Technologies  
Power Quality Improvement Techniques | HVDC/FACTS | Electrical Machines and Industry Applications | Bio-medical Engineering | Intelligent Systems | High Voltage Engineering & Insulation Technology | Photo/Opto Electronics

**Track 4 - Advanced Materials**  
Biomaterials | Composite Materials | Energy Storage and Conversion Materials | Renewable Materials | Functional Materials | Nano Materials | Building Materials | Chemical Materials | 3D Materials | Cryogenic Materials | Polymer Science  
Smart/Intelligent Materials/Intelligent Systems | Optical/Electronic/Magnetic Materials | Automation, Control and Information Technology | Magnetic Materials and Smart Materials for Specific Applications | MEMS and Structural Control | Active Materials in MEMS Applications | Materials Property and Characterisation | Thin Film Technology

## Registration fee details

Category	Indian authors	Foreign authors
Graduate students	Rs. 8,000	USD 250
Research scholars / Academicians	Rs. 7500	USD 250
Industry / Others	Rs. 10,000	USD 250
Listeners*	Rs. 2,000	USD 100
Poster**	Rs. 4,000	USD 150
Additional page charge**	Nil	Nil
Conference kit and print proceedings***	Rs. 2,000	USD 100

The registration fee includes the PUBLICATION FEE for IOP: Materials Science and Engineering.

Registration is per paper not per author. One full registration covers participation and e-certificates for all authors along with e-proceedings. More than one author can be allowed under "Listener" category.

\*For additional author participation | \*\*Presentation and publication in print proceedings with ISBN only | \*\*\*No page limit

\*\*\*one conference kit, proceedings, conference complements and participation ticket for one author during the conference.

## Contact details

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Website  
www.gc-rdct.com



The book of proceedings of GC-RDCT 2021 with all the accepted papers will be published in the following IOP Conference Series



**IOPscience**  
**Materials Science and Engineering**  
A Conference Proceedings Journal

## Indexing and Abstracting

The book of proceedings of GC-RDCT 2020 will be indexed in

Conference Proceedings Citation Index – Science (CPCI-S)  
(Thomson Reuters, Web of Science)

EI - Compendex

EX Libris Primo

Inspec

Chemical Abstracts Service

INIS (International Nuclear Information System)

NASA Astrophysics Data System

SPIRES

VINITI Abstracts Journal (Referativnyi Zhurnal)

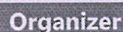
## Important dates

Last date for paper submission	25, May 2021
Notification of acceptance	25, June 2021
Registration commencement	15, April 2021
Registration deadline	05, July 2021
Camera Ready Paper (CRP) submission	05, July 2021
Conference date(s)	29 - 30, July 2021

The proceedings is expected to be published online in IOP: MSE before 28, October 2021.

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Department of Computer Science and Engineering  
Department of Information Science and Engineering  
Department of Electronics and Communication Engineering  
**A. J. Institute of Engineering and Technology**  
Mangalore, Karnataka, India

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Global Conference on  
**Recent Developments in Computer and Communication Technologies**  
**(GC-RDCT 2021)**

29-30, July 2021 | Mangalore, India | [www.gc-rdct.com](http://www.gc-rdct.com)

**Program Schedule**

Date	Time	Event
29.07.2021	09.30 am to 10.00 am	Inaugural Function Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
29.07.2021	10.00 am	Keynote 1 <b>Ts. Dr. Tan Chye Lih</b> Head of Strategy and Risk management Division, SQM Faculty of Mechanical Engineering Technology, Universiti Malaysia Perlis (UNIMAP), Malaysia. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
29.07.2021	10.45 am	Keynote 2 <b>Dr. Manoharan P A</b> Dean - Innovations Chennai Institute of Technology & Director Robota Technology Innovation Pvt. Ltd., Chennai Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
29.07.2021	11.30 am to 05.30 pm	Session: <b>EE01</b> (Online) Meeting link: <a href="https://meet.google.com/jik-qynh-ajc">meet.google.com/jik-qynh-ajc</a>
		Session: <b>EE02</b> (online) Meeting link: <a href="https://meet.google.com/tkw-vegt-fwi">meet.google.com/tkw-vegt-fwi</a>
30.07.2021	10.00 am	Keynote 3 <b>Dr. Patel R N</b> Department of Electrical Engineering National Institute of Technology Raipur Raipur, Chhattisgarh, India Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
30.07.2021	10.45 am	Keynote 4 <b>Dr. Murugappan M</b> Department of ECE Kuwait College of Science and Technology (A Private University), Kuwait. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a>
30.07.2021	11.30 am to 05.20 pm	Session: <b>CS01</b> (online) Meeting link: <a href="https://meet.google.com/dvf-fqyu-jhq">meet.google.com/dvf-fqyu-jhq</a>

CS - Computer Science & Engineering  
 EE - Electrical, Electronics & Communication Engineering

**Session: EE01**

Date: 29.07.2021

Time: 11.30 am to 05.30 pm

Session In-charge: **Mr. Raghavendra Havaladar**Session in-charge Contact Number: **+91 9731099138**Google Meet ID/Link: **[meet.google.com/jik-qynh-ajc](https://meet.google.com/jik-qynh-ajc)**

Time	Paper ID	Paper Title
11.30 am	RDCT 1015	Simulation of Different Third Harmonic Injected PWM Strategies for 5-Level Diode-Clamped Multilevel Inverter
11.50 am	RDCT 1020	High Performance Wallace Tree Multiplier Using Majority Gate Based Adders
12.10 pm	RDCT 1025	A Review of Meshing Techniques in the field of Biomedicine
12.30 pm	RDCT 1028	Application of Natural Betalain Dye from Beetroot for Improved Efficiency in Dye Sensitized Solar Cell
12.50 pm	RDCT 1031	Pair sum modulo labeling of spider graph
02.00 pm	RDCT 1042	Power-efficient Strategies for Sensing in Autonomous Mobile Robots, a critical requirement of I4.0 standard
02.20 pm	RDCT 1043	Low Power Memory System Design Using Power Gated SRAM Cell
02.40 pm	RDCT 1045	Replacing two As atoms in silicene nanoribbons in the presence of an external electric field
03.00 pm	RDCT 1048	Efficient Waste Management Models for Smart Cities: A Case Study
03.20 pm	RDCT 1049	Design and Simulation of Sierpiński Triangle Fractal Antenna for S-Band
03.40 pm	RDCT 1075	Design and evaluation of hybrid SHE+STT-MTJ/CMOS full adder based on LIM architecture
04.00 pm	RDCT 1080	Design & Simulation of S Band Planar Microwave Filter for Wireless Application
04.20 pm	RDCT 1082	A Different Shaped Radiating Element Wide Band Multi-Band Massive MIMO Antenna for 5G/WLAN applications with Enhanced Correlation Coefficient
04.40 pm	RDCT 1059	UIE-Net: Underwater Image Enhancement Network for Improved Visual Perception
05.00 pm	RDCT 1061	Restoration of degraded underwater images with attenuation coefficients as a clue
05.20 pm	RDCT 1062	3D Pointcloud Rendering in ARCore

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**Session: EE02**

Date: 29.07.2021

Time: 11.30 am to 04.00 pm

Session In-charge: **Mr. Pradeep Kumar**Session in-charge Contact Number: **+91 9448189416**Google Meet ID/Link: **[meet.google.com/tkw-vegt-fwi](https://meet.google.com/tkw-vegt-fwi)**

Time	Paper ID	Paper Title
11.30 am	RDCT 1090	Influence of pH and salinity on photocatalytic dye degradation and heavy metal ion reduction with cobalt ferrite photocatalysts
11.50 am	RDCT 1091	Mathematical model and analysis of PV Converter - Inverter System
12.10 pm	RDCT 1096	Propagation of Partial Discharge Pulses in Transformer Windings
12.30 pm	RDCT 2010	Selection of an efficient wind turbine generator at Government science college premises Chitradurga, India
12.50 pm	RDCT 2015	UWB dual notch implementation using folded bi-section stepped impedance resonator
02.00 pm	RDCT 2022	A Novel Approach in Hybrid Median Filtering for Deinoising Medical Images
02.20 pm	RDCT 2026	Automatic Detection of New Vessels in Retinal Photographs using Machine Learning
02.40 pm	RDCT 2027	Fruit Classification Comparison Based on CNN and YOLO
03.00 pm	RDCT 2032	Development of data driven adaptive edge detectors for image processing
03.20 pm	RDCT 2035	Assessment of Asphalt Road Pavement Rehabilitation and Maintenance Practices: The Case of West Showa Zone in Oromia, Ethiopia
03.40 pm	RDCT 1089	Design of All-Optical Logic Gates Based on a Germanium Ring Resonator using Photonics Technology
04.00 pm	RDCT 2011	Low-compute facial expression recognition using fiducial feature-sets
04.20 pm	RDCT 2037	Effect of Thermal Barrier Coating in Sustainable Power production of Gas Turbines
04.40 pm	RDCT 1083	Integrated Multi-Operational Antenna System Design for CR Applications
05.00 pm	RDCT 1084	Performance Evaluation of GFDM with TWTA High Power Amplifier Model

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**Session: CS01**

Date: 30.07.2021

Time: 11.30 am to 04.00 pm

Session In-charge: **Mr. Terance Marian F**Session in-charge Contact Number: **+91 9845095295**Google Meet ID/Link: **[meet.google.com/dvf-fgyu-jhq](https://meet.google.com/dvf-fgyu-jhq)**

Time	Paper ID	Paper Title
11.30 am	RDCT 1004	Group Leverage Centrality and its Applications in Brain Networks
11.50 am	RDCT 1036	Open Source Knowledge Delivery
12.10 pm	RDCT 1050	Deep Neural Network for Electroencephalogram based Emotion Recognition
12.30 pm	RDCT 1057	Real-time Flow Visualization using Projection Mapping Technique
12.50 pm	RDCT 1079	Medical Health Data Privacy Preservation Systems Using Blockchain and Smart Contract
02.00 pm	RDCT 1085	Internet of Things (IoT) in Education
02.20 pm	RDCT 1093	Ring-Based Quantum Network with Quantum Key Distribution (QKD) and Quantum Digital Signature(QDS)
02.40 pm	RDCT 1095	Analysis of an algorithm used for finding Unipolar Orthogonal Codes
03.00 pm	RDCT 1097	Simulation Tests of Tokyo Quantum Network
03.20 pm	RDCT 2009	APACHE-II Score based Clinical Decision Support Model for ICU Patient Monitoring
03.40 pm	RDCT 2024	Comparison of word embeddings in text classification based on RNN and CNN
04.00 pm	RDCT 2031	Math Adventures with Tuffy: A 2D game to aid in learning Mathematics
04.20 pm	RDCT 2038	Comparison of D-Vine and R-Vine Technique for Virtual Network Embedding Problem
04.40 pm	RDCT 2043	Improving the Relation Classification Using Convolutional Neural Network
05.00 pm	RDCT 2012	Symmetric Key Cryptosystem based on Sequential State Machine

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# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)

<b>NAME OF THE EVENT:</b>	<b>Global Conference of Recent Developments in Computer and Communication Technologies (GC-RDCT 2021)</b>
<b>ORGANISING DEPARTMENT / COMMITTEE :</b>	<b>Department of Information Science &amp; Engineering, Department of Computer Science &amp; Engineering, Department of Electronics &amp; Communication Engineering.</b>
<b>DATE :</b>	<b>29-07-2021 and 30-07-2021</b>
<b>NAME OF THE RESOURCE PERSON :</b>	<p>Keynote 1 – 29.07-2021 <b>Ts. Dr. Tan Chye Lih</b> Head of Strategy and Risk management Division, SQM Faculty of Mechanical Engineering Technology, Universiti Malaysia Perlis (UNIMAP) Malaysia. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p> <p>Keynote 2 – 29.07-2021 <b>Dr. Manoharan P A</b> Dean - Innovations Chennai Institute of Technology &amp; Director Robota Technology Innovation Pvt. Ltd., Chennai Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p> <p>Keynote 3 – 30.07-2021 <b>Dr. Patel R N</b> Department of Electrical Engineering National Institute of Technology Raipur Raipur, Chhattisgarh, India. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p> <p>Keynote 4 – 30.07-2021 <b>Dr. Murugappan M</b> Department of ECE Kuwait College of Science and Technology (A Private University) Kuwait. Meeting link: <a href="https://meet.google.com/oxv-oabd-adu">https://meet.google.com/oxv-oabd-adu</a></p>
<b>NO OF PARTICIPANTS :</b>	<b>45 participants in Virtual mode</b>
<b>Conference Proceedings Link:</b>	<b><a href="https://iopscience.iop.org/issue/1757-899X/1187/1">https://iopscience.iop.org/issue/1757-899X/1187/1</a></b>

A two day Global Conference of Recent Developments in Computer and Communication Technologies (GC-RDCT 2021) was inaugurated on 29-07-2021 in Seminar Hall-1 at AJIET Campus. The inaugural function started by 9.35 a.m. and the delegates were escorted to dais by Dr. Nagesh H. R. and Dr. Sangeetha D. M. The function was presided by Mrs. Ashritha P. Shetty - Director, LMET(R), Principal Dr. Shantharama Rai C., Chief convenor of GC-RDCT 2021 Dr. Nagesh H.R., Chief convenor of GC-RASM 2021 Dr. Sangeetha D.M. and HOD's of various departments. Ms. Shraddha and Team evoked the

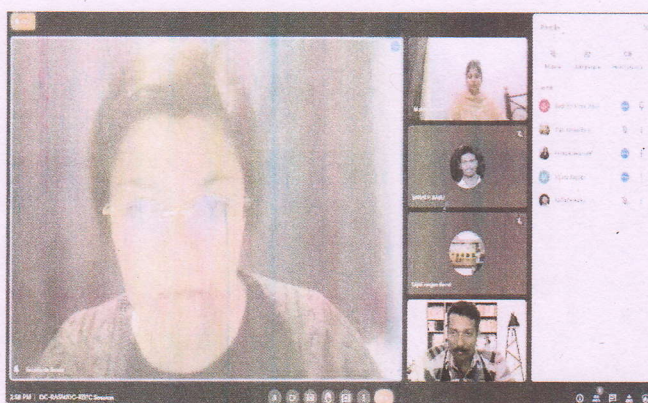
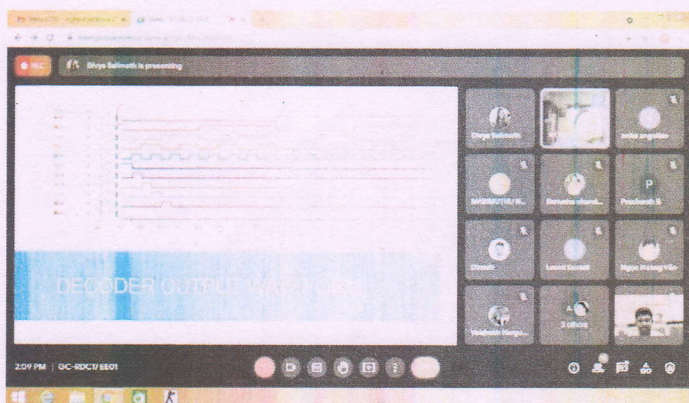
Principal

blessings of almighty with a prayer song. Dr. Nagesh H.R. welcomed the gathering and Dr. Sangeetha D.M. briefed about the conference. The CMS partner for the conference Dr. Thangaprakash S. from Diligentec solutions released the conference soviniar vitually and delivered a talk on about the conference. Principal Dr. Shatharama Rai C. addressed the gathering about the Institute and the confrence. Presidential address was delivered by Mrs. Ashritha P. Shetty and congratulated the team for organizing the conference at international standards. Vote of Thanks was delivered by Mrs. Smitha Shetty.

Day 1 - The program started with Keynote session 1 at 10.15 a.m., followed by keynote session 2 at 10.45 a.m. Altogether around 02 parallel sessions started by 11.30 a.m. and held virtually using Google meet platform. Around 25 papers were presented in virtually and out of 31 registered papers.

Day 2- 30.7.2021: Keynote session 3 started by 10.00a.m followed by Keynote session 4 at 10.45 a.m. Thereafter one (01) parallel session started at 11.30 a.m and around 14 papers were presented in the session.

Valedictory: In the evening by 4.30 p.m. valedictory session was held virtually via Google Meet. Mrs. Smitha Shetty welcomed the gathering. Dr. Nagesh H.R. delivered Valedictory Speech. Principal Dr. Shantharama Rai C., delivered the presidential address. Few researchers and Session chairs shared their valuable feedbacks. Dr. Thangapraksh S., shared the concluding remarks of the conference followed by Vote of thanks by Dr. Sangeetha D.M. The session concluded by 5.00p.m.



*Sangeetha*  
Convenor

CC To:

1. President, LMET,
2. Vice President, LMET

*N*  
PRINCIPAL  
Principal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006

## 2022 Second Global Conference on Recent Advances in Sustainable Materials

28 - 29, July 2022 | Mangalore, Karnataka, India | [www.gc-rasm.com](http://www.gc-rasm.com)

Call for Papers

Second edition

### GC-RASM 2022

The scope of the 2022 Second Global Conference on Recent Advancements in Sustainable Materials (GC-RASM 2022) is to provide a forum for researchers, scientists, academicians, scholars and practitioners around the world to present papers on recent developments in the broad fields of Materials Sciences and Engineering. The GC-RASM 2022 aims to bring together leading academic scientists, researchers and research scholars to exchange innovative and novel ideas, share field trial experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on people, society and environment. We invite industrial and academic professionals from across the world in the fields of materials science and engineering to discuss and exchange ideas in the areas of world's great importance such as sustainable materials science and engineering. The conference will be held in HYBRID MODE.

### Call for papers

GC-RASM 2022 invites full-length original research articles from research scholars, faculty, scientists and industry professionals from India and across the world. Research articles and review papers not exceeding twelve pages in a single column format shall be submitted. The manuscripts should not have been published or under review in any of the journals or conference proceedings. Further, the manuscript should contain the name, e-mail id of the corresponding author and affiliation of co-authors.

Softcopy of the full length manuscripts (in word or pdf format) shall be submitted to [gc-rasm@ajiet.edu.in](mailto:gc-rasm@ajiet.edu.in)

### Topics (but NOT limited to)

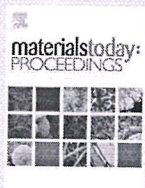
#### Advanced Materials

Innovative and sustainable materials  
Biomaterials  
Composite materials  
Energy storage and conversion materials  
Smart and intelligent materials  
Functional materials  
Nano materials  
Building materials  
Advances in structural materials and engineering  
Materials in marine structures  
Durability and corrosion of materials  
Chemical materials  
3D materials

Cryogenic materials  
Ceramics, shape memory alloys and nanomaterials  
Polymer science  
Hydrogels and Phase Change Materials  
Development of MAX phases and MXenes  
Smart/Intelligent materials/Intelligent systems  
Optical/Electronic/Magnetic materials  
Automation, control and information technology  
Magnetic materials and smart materials for specific applications  
MEMS and structural control  
Active materials in MEMS applications  
Materials property and characterisation  
Thin film technology

#### Manufacturing

Aerodynamics  
Manufacturing systems and simulation  
Machine design  
Machinery dynamics  
Nanotechnology  
Mechanical dynamics and vibration  
Mechanical design  
Casting technology and equipment  
Welding technology and equipment  
Plastic processing technology  
Cellular manufacturing  
Advanced manufacturing processes  
Laser processing  
Vibration engineering



### Publications

All the accepted papers will be published in the "Elsevier's Materials Today: Proceedings" - a journal specializing in the publication of conference proceedings.

The book of proceedings will be indexed in

SCOPUS | Conference Proceedings Citation Index (Thomson Reuters, Web of Science) | Inspec

### Registration

Registration form for GC-RASM 2022 is available in the Downloads link. Duly filled-in registration form shall be sent to [gc-rasm@ajiet.edu.in](mailto:gc-rasm@ajiet.edu.in) on or before 05, July 2022. Methods of payments have been given in the website. The payment of registration fee shall be made through internet banking, direct money transfer or credit/debit card facilities. Corresponding authors are strictly advised to send the copy of receipt/bill or payment proof with banking payment reference number along with the registration form.

### Publication Partner



Proceedings of GC-RASM 2021 (First edition) has been published in Materials Today Proceedings, Volume 49, Part 5 (2022).

### Contact details

Mobile & WhatsApp  
(+91) 97894 89103

E-mail  
[gc-rasm@ajiet.edu.in](mailto:gc-rasm@ajiet.edu.in)

Website  
[www.gc-rasm.com](http://www.gc-rasm.com)

### Important dates

Last date for paper submission	05, June 2022
Last date for acceptance	30, June 2022
Registration commencement	01, April 2022
Registration deadline	05, July 2022
Camera Ready Paper (CRP) submission	05, July 2022
Release of Conference schedule	06, July 2022
Conference date(s)	28 - 29, July 2022

### Registration fee

	Indian authors (in Rs)	Foreign authors (in USD)
Graduate Students	8000	250
Research Scholars / Academicians	8000	250
Industry and Others	10000	300
Poster	4000	150

### Organized by



Department of Civil Engineering  
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Second Global Conference on  
**Recent Advancements in Sustainable Materials**  
**(GC-RASM 2022)**

28-29, July 2022 | Mangaluru, India | [www.gc-rasm.com](http://www.gc-rasm.com)

**Program Schedule**

Date	Time	Event
28.07.2022	09.30 am to 10.00 am	Inaugural Function
28.07.2022	10.00 am	<b>Keynote 1 : Dr. V.N Mani</b> Scientist-E, Head, High Pure Electronic Materials, Devices & Systems Development Division Centre for Materials for Electronics Technology(C-MET) Department of Electronics & Information Technology, Govt. of India
28.07.2022	10.45 am	<b>Keynote 2 : Dr. Dattatraya Narayan Gaonkar</b> Department of Electrical and Electronics Engineering, National Institute of Technology Karnataka Surathkal (NITK)
28.07.2022	11.30 am to 05.00 pm	Session : RASM 01(Offline)
		Session : CE01(online)
		Session : CE02(online)
		Session: CH01(Online)
		Session : ME01(online)
		Session : ME02(online)
		Session : MSE01(online)
		Session : PH01(online)
Session : PH02(online)		
29.07.2022	09.45 am	<b>Keynote 3 : Syahrin Nizam Md Arshad</b> Faculty of Electrical Engineering Technology, Universiti Malaysia Perlis
29.07.2022	10.15 am	<b>Keynote 4 : Mohamad Nur Khairul Hafizi Rohani</b> Faculty of Electrical Engineering Technology, Universiti Malaysia Perlis
29.07.2022	10.30 am to 04.00 pm	Session : CE03(online)
		Session : CH02(Online)
		Session : ME03(online)
		Session : ME04(online)
		Session : ME05(online)
Session : PH03(online)		

Program Schedule of GC-RASM 2022

		Session : EC01(online)
		Session : EE01(online)
		Session : MA01(online)
29.07.2022	04.00 pm	Valedictory Function

CH - Applied Chemistry  
CE-Civil Engineering  
MA-Applied Mathematics  
MSE- Materials & Nanotechnology

PH- Applied Physics  
ME- Mechanical Engineering  
EC – Electronics Engineering  
EE – Electrical Engineering

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Note:

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given
4. Mode of presentation should be powerpoint presentation(ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes(Queries)
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) GC-RASM Whatsapp group during presentation date(s).

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**Session: RASM 01 (Physical)**

Date: 28.07.2022

Time: 11.30 am to 04.30 pm

Session In-charge : Dr. Pavithra Shanbhag

Session in-charge Contact Number : +91 9480025089

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 1071	Topical Delivery of Natural Extract for Accelerated Wound Healing	Nausheen Ahmed, R. Deveswaran, P. Parasuraman, S. Bharath, C. Priyanka, P.S. Santosh
11.50 am	22RASM 2010	Modeling Green Organic field effect transistors from common biodegradable materials	Siva Prasad C P, Abhinav T, P Predeep
12.10 pm	22RASM 2035	Analysing a YSF Precision Locknut with the Tighten Loads of Three Fixed Coppers and Screws	Kuan-Yin Lee, Prasana kumar Samanta, Liao-Neng-Tung
12.30 pm	22RASM 4045	Effect of Doping Copper on K-OMS-2 Over Soot Oxidation Activity	Nithya R, Harshini Dasari, Nethaji S, Sriram S, Vikram A L, M S Murari
02.10 pm	22RASM 4062	Photocatalytic Activity of SF-CuO-NPs Nanocomposite Material	H. Basappa, K. S. Harisha, B Narayana, Y. Sangappa
02.30 pm	22RASM 5033	Peak-Shadow-Distance Method for Solar Energy Mapping of AL Hajar Mountains Using Data Mining Techniques	Prabhu Natarajan, Charles Savarimuthu, Najiba Said Hamed Al-Zadjali, Kanagaraj
02.50 pm	22RASM 5057	Electrochemical Quantification Of Vanillin Using Hydrazine Derivative Modified Pencil Graphite Electrode	Sreelekshmi, Abhishek Wilson, BhamaSajeevan, Gopika M G, AthiraBabu, Sreedhar K M, Beena Saraswathyamma
03.10 pm	22RASM 5058	Poly-5-Amino-1-naphthol modified pencil graphite electrode for the simultaneous electrochemical determination of Pyridoxine and Riboflavin	Bhama Sajeevan, Gopika M G, Sreelekshmi, Abhishek Wilson, Adithya Narayan Pillai, Beena Saraswathyamma
03.30 pm	22RASM 5077	Historical Water body changes using Spatio temporal Indices - A case study of Dakshina Kannada	Saketh T.Shetty, Abhishek Kushwaha, Amba Shetty
03.50 pm	22RASM 1087	Formulation and In-vitro Evaluation of Grape Seed Extract Containing Dentifrice	Aditi Rao, S Ashwini, R Deveswaran

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**Session: CE01 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 04.40 pm

Session In-charge : Mr. Nithin Shet

Session in-charge Contact Number : +91 9164073394

Google Meet ID/Link : <https://meet.google.com/jhx-mfcc-wzi>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 1004	Experiment studies comparing Conventional concrete to Bubble deck concrete	Samantha.Konuri, T.V.S.Vara lakshmi
11.50 am	22RASM 1008	Concrete Using Waste Iron Fillings	Khalid Mohammed Breesem, Thaer Jasim Mohammed, Douread Raheem Hassen, Suad Mohammed Heil
12.10 pm	22RASM 1043	Impact of Recycled Aggregate on Concrete	Pulkit Mathur, Tejas Joshi, Urmil Dave
12.30 pm	22RASM 1055	Geopolymer Concrete and its strength influencing variables	Kamal Kishore
02.00 pm	22RASM 1080	The Influence of Metakaolin, Silica Fume, Glass Fiber, and Polypropylene Fiber on the Strength Characteristics of High Performance	Sachin Patil, H Sudarsana Rao, Vaishali.G.Ghorpade
02.20 pm	22RASM 2017	Study on Properties of Recycled Aggregate Concrete with Zeolite	S.Geetha, M. Selvakumar, S. Muthu Lakshmi, L.Aarathi, S.Deepak, T.Marshal
02.40 pm	22RASM 2018	Studies on Properties of Polymer Modified Aerated Concrete	S. Geetha, M.Selvakumar, S. Muthu Lakshmi, Sree varrun .D, Sathya sudhan .S, V.Muthuraja
03.00 pm	22RASM 2019	Properties of High-Performance Concrete with Automobile Grinding Waste as Replacement of Fine Aggregate	M. Selvakumar, S. Geetha, S. Muthu Lakshmi, Srinivasan .K.B, Srinivasan .D, Santhosh .T
03.20 pm	22RASM 2020	Study on Properties of Foam Concrete with foundry sand and Latex	M. Selvakumar, S. Geetha, S. Muthu Lakshmi, C. Srimathi, Sathya Narayanan, Mukesh.B
03.40 pm	22RASM 2036	Study on Self-curing concrete using Polyethylene Glycol 600 for highway infrastructure project	Makendran C, Karunanidhi S, Shiferaw Garoma, Bekesha Merea
04.00 pm	22RASM 2039	Influence of E-Coli on Workability and Strength Characteristics of Self-Consolidating Geopolymer Concrete Based On GGBFS, Flyash and Alccofine	Nishanth L, Nivedita Kumbar, Sravani Kaveti, Nayana N.Patil, Debasish.Kar
04.20 pm	22RASM 2065	Strength and Workability characteristics of Hybrid Bamboo and Steel Fiber Reinforced Concrete	Yogesh P, Kumaresh Ravi, Karthik R, Bhavana M, Surya Muthukumar, Dhanya Sathyan

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**Session: CE02 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 04.20 pm

Session In-charge : Mrs. Sahana K.

Session in-charge Contact Number : +91 9448601405

Google Meet ID/Link : <https://meet.google.com/ajo-iepr-smi>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 2074	Analysis of Two-Storey Masonry Structure under Blast Loading	Ismail Raza, Saba Shamim, Shakeel Ahmad, Rehan A. Khan
11.50 am	22RASM 3004	Influence of Prosopis Juliflora ash in Mechanical Properties of Concrete	Sridhar Jayaprakash, Vivek Deivasigamani, Gobinath Ravindran
12.10 pm	22RASM 3008	Fresh and hardened state properties of waste tire fiber and steel fiber reinforced concrete	Amaan Mohammad S, Naga Chaitanya Krishna T, Saketh T, Yashwanth Ganesh Y, Dhanya Sathyan
12.30 pm	22RASM 3039	Push-Out Tests of a New Prefabricated Shear Connector Using Normal and Steel Fiber Reinforced Concrete	Jenan N. Almusawi, Haitham Hasan Muteb Aldaami
02.00 pm	22RASM 3060	Monitoring hydration of concrete using EMI of surface bonded smart piezo patches	Adnan Khan, Moinul Haq, Tabassum Naqvia
02.20 pm	22RASM 3078	Investigation of rheological properties in Shear Thickening Fluid for Seismic Dampers	Ruby Freya, Ashish Kumar.G, Bharath Vazhvarasan.T, Richin John Charly, Shanmugam. A
02.40 pm	22RASM 3084	Development of optimum sustainable metakaolin replaced cement concrete based on homogeneity, compressive strength and rapid chloride ion penetration	Venkata Subash Koneru, Sai Nitin Chowdary Kolli, Varun Gopal Vemuri, Kamalesh Gurrarn, Vaishali G. Ghorpade, Sudarsana Rao Hanchate
03.00 pm	22RASM 4020	Characteristics Strength of M40 Concrete With Partial Replacement of Cement By Mousambi Peel Powder	Hemant Kumar Sain, Anuj Raj Choudhary, Rakshit Shukla, Pranav Harit
03.20 pm	22RASM 4030	Strength Characteristics of Recycled Asphalt Pavement Aggregate based Geopolymer Concrete	J. Preethi, P. Deepak, N. Nikhil, G. Omkar, R. Vidya, P. Bhuvaneshwari
03.40 pm	22RASM 4034	To Study the Strength Assessment of No-Fine Concrete Pavement	Hemant Kumar Sain, Pankaj Singh Jat, Aman Raj Sahariya

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**Session: CH01 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Ms. Divya

Session in-charge Contact Number : +91 7483460763

Google Meet ID/Link : <https://meet.google.com/fpi-ocxe-vnn>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 1027	Sonogashira Cross Coupling and Cyclization Reaction Under Microwave Irradiation supported by Sodium Aluminate (NaAlO <sub>2</sub> ) and catalyzed by Zinc: A Green Alternative Approach For One-Pot Tandem Synthesis of Furo[3,2-h]quinolines	Pritam Saha, Koushik Mukherjee
11.50 am	22RASM 1030	Environmentally Benign Synthesis of 2,3,7-Substituted 1,8- Naphthyridines Devoid of Catalyst	Bhaskar Pittala, Srinivas Reddy Dachepally, Shashikala Kethireddy, JanardhanEppakayala, Laxminarayana Eppakayala
12.10 pm	22RASM 1046	A simple fabrication of Mn doped SnO <sub>2</sub> nanoparticles towards improved congo red degradation photocatalytic activity	P.Rajeswaran, M.Shanmuganathan, T.Shanmuga Sundari, A.Elavarasan, P.Siva karthik
12.30 pm	22RASM 1066	Parametric studies of Degradation of reactive red 120 by a novel approach of hydrodynamic cavitation	Litesh.V.Malade, Umesh.B.Deshannavar, Abhijeet.D.Patil, Rahul.A.Patil
12.50 pm	22RASM 1079	Hydro-biological assessment of sustainable Desert Rain-Fed Ponds of Western Rajasthan Using Physico-chemical Characteristics and Phytoplanktonic Indices	Abhilasha Choudhary, Sulochana Sharma, Ranveer Singh and Prakash Narayan
02.00 pm	22RASM 1090	ZnO codoped with Si and Mn – Preparation, characterization and photocatalytic reduction of hazardous chromium (VI) by the codoped ZnO	Amal N, Athira Chandran M, Sreekanth K M, Sivasubramanian G, A. Chithra Mohan, Gowri S L, Rishika Narendran and Sreedhar K M
02.20 pm	22RASM 1099	Potential Efficacy of a Fruit Waste - Manila Tamarind Seed Powder for the Adsorption of Hazardous Dyes from Aqueous Solution: Batch Studies	KSNV Prasad, Sridevi Veluru, Sri Himaja Pamu, Venkata Rao Poiba, Husam Talib Hamzah, Meghana Seereeddi
02.40 pm	22RASM 2005	Analysis of Smart Biomaterial containing Umbilical Cord Blood Serum Protein Conjugated with P-(NIPAAm) using Spectroscopy	Manasa Biligowda Latha, Ashmitha Kishan Shetty, Rajamanickam Deveswaran, Ashish Jagannath Rai, Serene Joy, Hadonahalli Munegowda Shashanka, Siddique Sha Muhammad Hussain, Suraksha Shetty

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**Session: ME01 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Mrs. Sharon C. D'Souza

Session in-charge Contact Number : +91 9886445912

Google Meet ID/Link : <https://meet.google.com/kzw-cfqq-gzc>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 1022	Effect of diesel engine modification operated with karanja biodiesel and its blends	G. S. Jatadhara, N. R. Banapurmath, T. K. Chandrashekar, S. B. Nagesh, P. A. Harari
11.50 am	22RASM 1033	Parametric Study of Abrasive Jet Machining on Zirconia	Nischal Thapa, Guransh Singh, Sidharth Rama, Ashish, Aman Kumar, Basanta Kumar Bhuyan
12.10 pm	22RASM 1037	Data analysis of the corrosion protection behavior of ginger, tea tree and grapefruit essential oil extracts on low carbon steel in	Roland Tolulope Loto, Edith Alagbe, Ayobami Busari
12.30 pm	22RASM 1038	Effect of Thick Film Coating on Scratch Resistance of Aluminium 6082-T6 Alloy Under Varied Loading Conditions	Tippeswamy M S, Arun K V, Shankara Naik
02.00 pm	22RASM 1048	Process Parameter Optimisation of Fused Deposition Method for Augmenting the Strength of Nylon Aramid PMCs	Nagendra J, Srinath. M. K, Bopanna.K.D, Sujeethswamy S, Ravikumar M
02.20 pm	22RASM 1050	Electrochemical data on the corrosion inhibition performance of admixed Citrus paradisi and Zingiber officinale oil extracts in 0.5 M H <sub>2</sub> SO <sub>4</sub> solution	Roland Tolulope Loto
02.40 pm	22RASM 1064	Analysis of Stress Intensity Factor of a finite plate with Centre Crack containing different hole shapes	Amith Anoop Kumar, Arunkumar S, Arutselvan C K and Jenuel John
03.00 pm	22RASM 1069	Experimental Study on Mechanical Properties of Al5083/ZrO <sub>2</sub> /B <sub>4</sub> C Hybrid Aluminium Metal Matrix Composites	K. Vijayalakshmi, G. Bhanodaya Reddy
03.20 pm	22RASM 1070	Design and Experimental Analysis of Dynamic Vibration Absorber (Dva) to Reduce Vibration in Rails By Using EPDM Material	Lochela Prabhu Kiran, P. Venkataramiah, Seedari Ujwala Rani
03.40 pm	22RASM 1074	Design Optimisation of Heat Sinks to Enhance its Thermal Conductivity Tested Through Computations Simulations	Bopanna.K.D, Srinath M.K, Ravikumar.M, Sujeeth Swami, Nagendra J
04.00 pm	22RASM 1096	Analysis of Mechanical Properties Based on the Nodularity in the Spheroidal Graphite Iron	Hamritha S, M Shilpa, M R Shivakumar, G Karthik Reddy
04.20 pm	22RASM 2003	Effect of Laser Cutting on Mechanical Performance of Woven Glass Fiber Reinforced Plastic Composites	Md Mijanur Rahman, M Muzibur Rahman
04.40 pm	22RASM 2026	Effect of Fuel Flow Analysis on a ECU controlled RCCI Engine with ETBE Blends	DVVS B Reddy Saragada, Vinjamuri SNCh Dattu, Puli Danaiah

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Program Schedule of GC-RASM 2022

03.00 pm	22RASM 2007	1H NMR based study of Cord Blood Platelet Rich Plasma Conjugated with N isopropyl acrylamide-gold nano particles	Suraksha Shetty, Ashmitha Kishan Shetty, Serene Joy, Manasa Biligowda Latha
03.20 pm	22RASM 2059	Eugenol-Based Molecular Imprinted Membrane Synthesis as a Glucose Sensor in Honey	Muhammad Cholid Djunaidi, Nesti Dwi Maharani, Gunawan, Miratul Khasanah
03.40 pm	22RASM 2073	Myristica fragrans assisted Copper Nanoparticles and analyzing the antibacterial activity of Kaempferol	Chandana Thummaneni, S.Monica Nissy, Ramya Golli, Debora Divya Pabbathi, Gumma Jayasri, Meena Vangalapati
04.00 pm	22RASM 2099	Artificial neural networks for predicting potentiodynamic tests of brass 70-30	Monzamodeth, J. F. Flores-Alvaréz, I. Reyes, F. Castillo, B. Campillo, O.Flores
04.20 pm	22RASM 3010	Potentiality of tannery buffing chromium-containing solid waste in making concrete blocks	Murali Pujari, Getahun Demeke, Abebe Worku, Srikanth Komarabathina
04.40 pm	22RASM 3015	Isothermal study on sorption of Lead from synthetic solution using Liagora Viscida	Murali Pujari, Srikanth Komarabathina, Lukas Gelibo Argefa, Surafel Yihune Tamirue

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**Session: ME02 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Mr. Nikhil N.

Session in-charge Contact Number : +91 9591585569

Google Meet ID/Link : <http://meet.google.com/ifd-khwj-jxs>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 2027	Development of Mn-Mo-X-Y-Z-O based electrocatalytic materials for making hydrogen fuel from saline water	Jagadeesh Bhattarai
11.50 am	22RASM 2028	Artificial Neural Network and Evolutionary Algorithms Based Optimization of Electrochemical Discharge Micromachining Process during Micro-channel Fabrication on	Krishnendu Mondal, SK Hikmat, Bijan.Mallick, Jayanta Mahato, Pijush Dutta
12.10 pm	22RASM 2030	Numerical Performance Analysis of a Twin Blade Drone Rotor Propeller	Pandiyarajan Rajendran, Agnishwar Jayaprakash
12.30 pm	22RASM 2044	Investigation of Tribological and Corrosion Performance of Duplex Electroless Ni-P/Ni-Cu-P Coatings	Palash Biswas, Suman Kalyan Das, Prasanta Sahoo
02.00 pm	22RASM 2051	Influence of ALR on SMD in 3-D Air-blast Atomization using CFD	Rajneesh Kumar Yadav, Vivek Kumar Patel
02.20 pm	22RASM 2075	Ultra-Fine Grained Commercial Pure Titanium for Load-Bearing Applications	Moumita Ghosh, S. Surekha, M.Anisha, A.Thirugnanam
02.40 pm	22RASM 2076	Prioritization of forging die design criteria based on failure analysis using fuzzy analytic hierarchy process (FAHP)	Abhishek Sharma, V M S Hussain, P. Abhishek Kumar, Manish Pandit
03.00 pm	22RASM 2079	An integrated approach of FEM analysis using DEFORM 3D and experimental investigation of forces developed in Al-Si7Mg	Sridhar, M.S Aezhisai Vallavi and T Mugilan
03.20 pm	22RASM 2080	Experimental investigation on performance, emission and combustion characteristics of neem oil bio diesel using ethanol blend	Mohankumar, P. Indharajith, P. Sabarishankar, V.T. Sanjaykumar, N. Vignesh kumar, N. Udhayakumar
03.40 pm	22RASM 2081	Effect of PCM thickness and nano-additive on the cooling performance of Stearic Acid based Battery Thermal Management	Stino John, Sreyas K, Yedhu Mohan, Anathan D Thampi, Rani S
04.00 pm	22RASM 2083	Stress Analysis of Laminated Graphite Fiber Reinforced Polymer Panel Stiffened Joint with 45° Fiber Orientation	Narendra Kumar Rana, Nabam Teyi, Pranjal Borah
04.20 pm	22RASM 3012	Sound Radiation of a GLARE Panel at Elevated Temperature	Arul Raj Vaiduriyam, Lenin Babu Mailan Chinnapandi

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A.J. Institute of Engineering & Technology  
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**Session: ME02 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Mr. Nikhil N.

Session in-charge Contact Number : +91 9591585569

Google Meet ID/Link : <http://meet.google.com/ifd-khwj-jxs>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 2027	Development of Mn-Mo-X-Y-Z-O based electrocatalytic materials for making hydrogen fuel from saline water	Jagadeesh Bhattarai
11.50 am	22RASM 2028	Artificial Neural Network and Evolutionary Algorithms Based Optimization of Electrochemical Discharge Micromachining Process during Micro-channel Fabrication on	Krishnendu Mondal, SK Hikmat, Bijan.Mallick, Jayanta Mahato, Pijush Dutta
12.10 pm	22RASM 2030	Numerical Performance Analysis of a Twin Blade Drone Rotor Propeller	Pandiyarajan Rajendran, Agnishwar Jayaprakash
12.30 pm	22RASM 2044	Investigation of Tribological and Corrosion Performance of Duplex Electroless Ni-P/Ni-Cu-P Coatings	Palash Biswas, Suman Kalyan Das, Prasanta Sahoo
02.00 pm	22RASM 2051	Influence of ALR on SMD in 3-D Air-blast Atomization using CFD	Rajneesh Kumar Yadav, Vivek Kumar Patel
02.20 pm	22RASM 2075	Ultra-Fine Grained Commercial Pure Titanium for Load-Bearing Applications	Moumita Ghosh, S. Surekha, M.Anisha, A.Thirugnanam
02.40 pm	22RASM 2076	Prioritization of forging die design criteria based on failure analysis using fuzzy analytic hierarchy process (FAHP)	Abhishek Sharma, V M S Hussain, P. Abhishek Kumar, Manish Pandit
03.00 pm	22RASM 2079	An integrated approach of FEM analysis using DEFORM 3D and experimental investigation of forces developed in Al-Si7Mg	Sridhar, M.S Aezhisai Vallavi and T Mugilan
03.20 pm	22RASM 2080	Experimental investigation on performance, emission and combustion characteristics of neem oil bio diesel using ethanol blend	Mohankumar, P. Indharajith, P. Sabarishankar, V.T. Sanjaykumar, N. Vignesh kumar, N. Udhayakumar
03.40 pm	22RASM 2081	Effect of PCM thickness and nano-additive on the cooling performance of Stearic Acid based Battery Thermal Management	Stino John, Sreyas K, Yedhu Mohan, Anathan D Thampi, Rani S
04.00 pm	22RASM 2083	Stress Analysis of Laminated Graphite Fiber Reinforced Polymer Panel Stiffened Joint with 45° Fiber Orientation	Narendra Kumar Rana, Nabam Teyi, Pranjal Borah
04.20 pm	22RASM 3012	Sound Radiation of a GLARE Panel at Elevated Temperature	Arul Raj Vaiduriyam, Lenin Babu Mailan Chinnapandi

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Program Schedule of GC-RASM 2022

04.40 pm	22RASM 3017	Effect of Cooling Technique and Tool Material on Inconel Alloy	Ganesh Dongre, Avdhoot Rajurkar, Suvarna Patil, Ravi Raut, Naina Joseph, Vaishnavi Mote, HarshRaja, Sumeet Jangam
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**Session: MSE01 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Ms. Nikhila

Session in-charge Contact Number : +91 9535620310

Google Meet ID/Link : <https://meet.google.com/odv-jrdk-zjs>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 2021	Synthesis and Electrochemical Characterization of Electrospun Biocompatible Poly (E - caprolactone) and Polyaniline Nanofiber Composite Electrode Materials for Various Biosensing Applications	Sumitha M S, Xavier T S
11.50 am	22RASM 2024	The micromagnetic study of stabilizing parameters for the interfacial skyrmions	Rajnandini Sharma, Shrawan Kumar Mishra
12.10 pm	22RASM 2025	Studies on structural and magnetic properties of Nanoporous Li <sup>+</sup> substituted MgFe <sub>2</sub> O <sub>4</sub> nanomaterials for its application in hydroelectric cell with other areas of Science & Technology	Aniket Manash, Rakesh Kumar Singh, Vivek Kumar, Jyoti Shah, Shashank Bhushan Das, Singh Sonu Kumar, Nishant Kumar and R. K. Kotnala
12.30 pm	22RASM 2054	Process parameters and their effect on structure and morphology of gadolinium doped ceria	Taranveer Kaur, K. Singh, Jayant Kolte
02.00 pm	22RASM 2055	Thickness Dependent Tungsten trioxide Thin Films Deposited Using DC Magnetron Sputtering for Electrochromic Applications	Ashok Reddy G V, Habibuddin Shaik, K Naveen Kumar, R Imran Jafri, Sheik Abdul Sattar, Jyothi Gupta,
02.20 pm	22RASM 3040	Multiphysics Simulation and Analysis of MEMS-based Chevron shaped Electro-Thermal Actuator for Quad-way Switching Application	Amruth S Pawar, Chandrashekar L N, Nithya G, K Naveen Kumar, Madhushankara M b, Shridhar Nayak
02.40 pm	22RASM 3043	Eco-friendly produced superfine Moringa oleifera nanometric food powder and its characteristic effect on its structural, morphological and toxicity for varied applications as new functional nanomaterials	Naman Kumar Naik, Rakesh Kr Singh, Pallavi Singh, Nishant Kumar, Ghufra Ahmed and Shyam Narayan
03.00 pm	22RASM 3054	Study of Tribological Properties of Al6061 Hybrid Nano Composites	T.Anand, C.Dhanesh, L.Ranganathan
03.20 pm	22RASM 4089	Weibull Distribution Optimization for Piping Risk Calculation due to Uniform Corrosion using Monte Carlo Method	Fernanda Hartoyo, Gabriella Pasya Irianti, Jaka Fajar Fatriansyah, Hanna Ovelia, Imam Abdullah Mas'ud, Farhan Rama Digita, Andrian Fauzi, Muhammad Anis

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Program Schedule of GC-RASM 2022

03.40 pm	22RASM 5003	Experimental investigation of composite gypsum board integrated with phase change material for improved thermal energy storage	Nitesh Kumar, Pushpendra Kumar Singh Rathore, Aman Kumar Pal
04.00 pm	22RASM 5006	High capacity H <sub>2</sub> adsorption over Si <sub>4</sub> Lin (n=1-3) binary clusters: A DFT study	Ankita Jaiswal, Sridhar Sahu
04.20 pm	22RASM 5054	Hydrophobicity of Cotton Fabric Treated with Plant Extract, TiO <sub>2</sub> Nanoparticles and Beeswax	Anushi singh, Malti singh, Aditi pandey, A V Ullas, Saurabh Mishra
04.40 pm	22RASM 4036	Simulation of TAZ:Ir(ppy) <sub>3</sub> -BCP/ZnO heterostructure OLED	Ritu, A. M. Quraishi, Sandhya Kattayat, Smitha Josey, P. A. Alvi

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**Session: PH01 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Mr. Prathiksha Rai

Session in-charge Contact Number : +91 8884935545

Google Meet ID/Link : <https://meet.google.com/khw-yzpp-hmp>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 1006	Electrical study of bismuth and zinc codoped yttrium oxide prepared by wet chemical method	G. Bhavani, A. Sutha, K. Senthamil Selvan, R. Senjudarvannan, V. P. Radha
11.50 am	22RASM 1019	Ammonia sensing performance of Ni doped-WO <sub>3</sub> nano particles prepared by simple hydrothermal method at room temperature	H. Lincy, P.C. Jobe Prabaka, S. Joshua Gnanamuthu, I. John David Ebenezar
12.10 pm	22RASM 1020	Green Synthesis of ZnO nanoparticles using Plectranthus Amboinicus leaf extract and Study their Characterization, Antibacterial Activity	G.Kamarajan, D.Benny Anburaj, V.Porkalao, G.Nedunchezian, S. Joshua Gnanamuthu, R.Meenambika
12.30 pm	22RASM 1032	Photocatalytic activity of Hibiscus leaf extract mediated ZnO nanoparticles by hydrothermal method	S.Roselin Mariyal, G.Nedunchezian, D.Benny Anburaj, S.Joshua Gnanamuthu
12.50 pm	22RASM 1062	Characteristics of Brillouin gain coefficient in magnetized piezoelectric semiconductor quantum plasmas	Nishchhal Yadav, P.S.Malviya, Manpreet Kaur Saluja, C.S Sharma
02.00 pm	22RASM 1075	Green Synthesis of Graphene Oxide Extracted from Punica Granatum and Applications	K. Priyadharshini, S. Rathinave, E.Velumana, A.Manikandan
02.20 pm	22RASM 2004	Low temperature synthesis of MoO <sub>3</sub> nanoparticles by hydrothermal method: Investigation on their structural and optical properties	A V Avani, R B Chrisma and E I Anila
02.40 pm	22RASM 2013	The Effect of Alkali Treatment on Thermo-physical Properties of Calotropis Procera (Aak) fibers	Ritika Sharma, G.P. Singh, Akshay Joshi
03.00 pm	22RASM 2014	Effect of pH on the structural and optical properties of cobalt oxide nanoparticles synthesised by hydrothermal method	B Chrisma, A V Avani and E I Anila
03.20 pm	22RASM 2041	Optical properties of polymer blend of polymethyl methacrylate and polyvinyl chloride copolymer	R Y Bakale, Y G Bakale, Y S Tamgadga, R P Ganorkar, S V Khangar, A B Patil
03.40 pm	22RASM 2042	Fabrication of Aloe vera Nanopowder by High energy ball mill process	Sabyasachi Mukherjee, Rahul Kanti Nath, Puspendu Chandra Chandra, Sutanu Samanta and Manapuram Muralidhar

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Program Schedule of GC-RASM 2022

04.00 pm	22RASM 2048	Improved Room Temperature Gas Sensing Performances of Pristine WO <sub>3</sub> Nano Particles	H.Lincy, S.Joshua Gnanamuthu, P.C.Job Prabakar, I.John David Ebenezar
04.20 pm	22RASM 2057	Variation of Optical Parameters of Physically Stacked Polyvinylidene Chloride Films with Thickness and Wavelength	Akkamma M. B, Blaise Lobo
04.40 pm	22RASM 2062	Hydrothermal Synthesis of ZnO Nanostructures for room temperature CO Gas Sensing analysis	T.Saranya, S.Sathiya, J.Vijayapriya, D.Benny Anburaj, K.Parasuraman, S.Joshua Gnanamuthu

  
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**Session: PH02 (ONLINE)**

Date: 28.07.2022

Time: 11.30 am to 05.00 pm

Session In-charge : Mr. Ganesh U. G.

Session in-charge Contact Number : +91 9611002215

Google Meet ID/Link : <https://meet.google.com/sfc-cqyh-hxk>

Time	Paper ID	Paper Title	Authors
11.30 am	22RASM 2072	Analysis of Morphological and Electro-optical Properties of Silica Nanoparticles induced Vertically Aligned Liquid Crystal - Effect of Doping and Coating Techniques	Ankit Rai Dogra, Vandna Sharma, Pankaj Kumar
11.50 am	22RASM 2078	Opto-electrical characteristics of Silver Nitrate-doped Polyvinyl Alcohol Films	Shivaji Bhosale
12.10 pm	22RASM 2093	Structural and spectroscopic properties of V <sub>2</sub> O <sub>5</sub> doped zinc bismuth sodium borate glasses	M. Naga Sireeshaa, J. Suresh Krishnab, V. Vinay Krishna, Ch. Linga Raju
12.30 pm	22RASM 3029	Evidence of Non-Debye Behavior of Pb <sub>0.76</sub> Sm <sub>0.24</sub> Ti <sub>0.76</sub> Fe <sub>0.24</sub> O <sub>3</sub> Ceramics by Complex Impedance Spectroscopy	Mehak Aroraa, Vishal Arorab, Shubhpreet Kaura, JasjitKaura, Sunil Kumara, Anupinder Singh
12.50 pm	22RASM 3032	Investigations on optical and photoluminescence properties of Dy <sup>3+</sup> doped zinc tellurite glass	Sukhdev Bairagi, K. S. Bartwal, Ghizal F. Ansari
02.00 pm	22RASM 3044	Growth of cerium oxide Nanorods by hydrothermal method and Electrochromic properties of CeO <sub>2</sub> /WO <sub>3</sub> Hybrid thin films for smart window Applications	Ashok Reddy G V, Habibuddin Shaik, K Naveen Kumar, Hitha D Shetty, R Imran Jafri, Sheik Abdul Sattar, Doreswamy B H
02.20 pm	22RASM 3052	Evaluation of crystal size present in graphene oxide quantum dots using optical and Raman spectroscopy	Prabin Kumar Mahato, Swarat Choudhari, Chandra Kumar, Sumit Roy, and Prashanta Patra
02.40 pm	22RASM 3062	Influence of Temperature on Oxygen Adsorption/Desorption properties of NEG Materials	K. Surendra, A.D.P.Rao, K. Prabhdas
03.00 pm	22RASM 3063	Structural, Magnetic, Dielectric and Magneto-Dielectric response in Pb <sub>0.75</sub> Nd <sub>0.25</sub> TiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> composites	Tiku Ram, Kanchan Khanna, Akshay, Sunil K. Dwivedi and Sunil Kumar
03.20 pm	22RASM 3073	Study of physical properties of homologous series of a ferroelectric liquid crystal	Amrita Mukherjee and S.S. Bhattacharyya

Program Schedule of GC-RASM 2022

03.40 pm	22RASM 3086	Studies on optical and electronic characteristics of ternary zinc-tellurite glasses with varying Zn doping concentration	Sukhdev Bairagi, K. S. Bartwal, S. K. Dhiman, S. K. Mahajan, Ghizal F. Ansari
04.00 pm	22RASM 4015	Sucrose mediated synthesis and XPS analysis of nanocrystalline LaCrO <sub>3</sub> perovskite oxide	Pranav Prasad, Sai Kiran, Meenu M and Arun S. Prasad
04.20 pm	22RASM 4049	Microhardness and Wear Resistance of Alkaline Electroless Ni-P/Ni-P-ZnO Nanocomposite Platings	Kuldeep Kumar, Vakul Bansal, Sulaxna Sharma, Sanjeev Kimothi, Awanish Sharma
04.40 pm	22RASM 4065	Structural And Optical Properties Of Copper Selenide Nanolayered Tiles	Pushpanjali Patel, Prerna Gupta, K M Sujata, and R. G. Solanki

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**Session: CE03 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 04.00 pm

Session In-charge : Mr. Prasad B G

Session in-charge Contact Number : +91 9740901154

Google Meet ID/Link : <https://meet.google.com/jde-onxu-tnf>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 4047	Uniaxial Tensile Properties for Bamboo and Jute Fabric Reinforced Natural Rubber	K Shri harsh, Surbhi Razdan, Deepti Sanjeev Marathe
10.50 am	22RASM 4051	Experimental Studies on Strength Behaviour of Concrete Reinforced with Natural Fibers	Pruthviraj K N, Srishaila Jagalur Mahalingasharma, Sachin Patil,
11.10 am	22RASM 4057	Usage of Non-Metallic Fraction Recycled from Printed Circuit Board in Concrete Paver Blocks and Paver Tiles	Aravinth Kumar V, Divyapprasanth M, Hari Prasad K V, Kadamban C A M, Poornima V
11.30 am	22RASM 4059	Assessment of Embodied Energy of Masonry Building Materials in Hassan, India	Devanand R, Prashanth S, Pinky L Devi, Chethan B A, Amar R, Harsha H N
11.50 am	22RASM 5010	Understanding the Role of Interfacial Transition Zone in Cement Paste and Concrete	Kamal Kishore, RadhaTomar
12.10 pm	22RASM 5016	Compressive Strength and Modulus of Poly (dimethylsiloxane)-Hollow Glass Microballoons Syntactic Foams reinforced with Nanoclay	Alok Upadhyay, A.V.Ullas
12.30 pm	22RASM 5021	Comparative life cycle assessment of recycled soil-stabilized bricks and traditional bricks	Inamdar Ahmed Raza, Navdeep, Rihan Maaze, Gyanendra Kumar Attri, Sandeep Shrivastava
02.00 pm	22RASM 5072	Microstructure Evolution and Strength Development for Pozzolana Blended Cement Mortar	Shivang Jayswal, Mahesh Mungule
02.20 pm	22RASM 5073	The Influence of Water-Gypsum Ratio on the Properties of National Gypsum (Joss) for Various Additives	Essam H. Elaiwi, Ali Kadhim Ibrahim, Saeb F. Al-Chalabi, Ali A. Abbood, Farah M. Hussein, Hussein H. Hussein, Ahmed S. D. AL-Ridha
02.40 pm	22RASM 4002	Influence of Treated Coir Fiber on Durability Properties of Black Cotton Soil	R Sridhar, H C Guruprasad, Naveenkumar D T, Sangeetha D M
03.00 pm	22RASM 5092	Structural Performance of Hybrid Fibres incorporated Re-Cycled Aggregate RC Slab	Vinod Kumar M, Jaideep C, Siddaramaiah Y M, Muthukannan M
03.20 pm	22RASM 5030	Performance Evaluation of one Dimensional Electrokinetic Barrier Subjected to Saltwater Intrusion: A Laboratory Scale Study	Abhishek A. Sutar, Veerabhadra M. Rotte
03.40 pm	22RASM 5055	Effect of Areca Fibers on Early Strength of Hybrid Fiber Reinforced Concrete	Anushree, D. T. Naveenkumar, Vijaya kumara Y M

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**Session: CH02 (ONLINE)**

Date: 29.07.2022

Time: 11.30 am to 04.00 pm

Session In-charge : Mr. Prakhyath

Session in-charge Contact Number : +91 9632477677

Google Meet ID/Link : <https://meet.google.com/vqt-jtov-zwk>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 3047	Experimental investigation on Biosorption of Nickel using Neem Leaves	Satish Kommoji
10.50 am	22RASM 3088	Silver nanoparticles synthesized by Brassica oleracea (Broccoli) acting as antifungal agent against Candida albicans	Ramya Golli, Chandana Thummaneni, Debora Divya Pabbathi, Tejaswini Srungarapu, Gumma Jayasri, Meena Vangalapati
11.10 am	22RASM 4008	Preparation and Characterization of Graphene Oxide Nanoparticles Derived from Wheat Straw	Ban Dawood Saleh, Ghazwan Hasan Abdulwahhab, Safaa Muhammad Rashid
11.30 am	22RASM 4012	Hydrogen adsorption behaviour in Graphene Oxide doped Ni/Pd@f-MWCNTs - A sustainable cleaner energy approach	Madhavi Konni, Manoj Kumar Karnena, Saratchandra Babu Mukkamala
11.50 am	22RASM 4035	Synthesis and characterization of some mixed ligands complexes of $\beta$ -enaminone with some metal ions	Fatimah Abdul-Sattar Mohamed and Ahmed.T. Numan
12.10 pm	22RASM 4041	Designing of Novel Nanoemulsions of Retinol Using Box Behnken Design for Psoriasis	Mukul Sharma, Mukesh Chandra Sharma, Rakhi Khabiya, Akanksha Dwivedi, Alankar Shrivastava, G.P. Choudhary, Shivani Dubey, SanjayJain
12.30 pm	22RASM 4042	Bioactive Exopolysaccharide From Marine Bacteria Micrococcus sp.MRN-01	Nisha. P, Elizabeth Paul, Bismimol Francis, Hyrunnisa MA, Shahma.R.M, Sona Johnson
12.50 pm	22RASM 4043	Effect of ionic salt on PVA/Ferric nitrate nano fibers	Tirumala Rao Kotni, Aiyush Verma, Abhisek Panda
02.00 pm	22RASM 4063	Preparation of polypropylene co-polymer (PPCP) based composites with improved properties in presence of MWCNT and MAGPP fillers	Kiran Kumar Vuba, Nagabhushan Etakula, Appala Naidu Uttaravalli

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Program Schedule of GC-RASM 2022

02.20 pm	22RASM 4092	Growth of Pyridinecarbothioamides and Single Crystal XRD Studies	C. Revathi, O. Senthilkumar and S. Soundeswaran
02.40 pm	22RASM 5007	Total Dissolved Solids (TDS) removal from sugar industry effluent using low cost adsorbents	Satish Kommoji
03.00 pm	22RASM 5032	Preparation of thiourea derivatives of isoniazid and evaluation of its bacterial activity	Zeyad Najm Abdulla, Maha Salih Hussein
03.20 pm	22RASM 5041	Stereochemical investigation of a diversely significant crystalline material	P. Parthiban, Y. Venkatarao
03.40 pm	22RASM 5048	Methyl Esters of Vitis Vinifera Seed Oil and Al <sub>2</sub> O <sub>3</sub> Nano additives impact on DI Diesel Engine Performance and Emissions	Chandra Sekhar S, Sreenivasulu M, Malinee Sriariyanun, Babu Dharmalingam, Sathiyamoorthy K

  
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**Mangaluru - 575 006**

**Session: ME03 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 04.00 pm

Session In-charge : Mrs.Navya S Rai

Session in-charge Contact Number : +91 9980909648

Google Meet ID/Link : <https://meet.google.com/iti-ugcg-gru>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 3018	Synthesis of PVA nano fibers by using Electrospinning	Tirumala Rao Kotni, Sarthak Pandey, Rajeev Ranjan, Parth Sarthi Srivastava, Sathvik Shekhar
10.50 am	22RASM 3022	Hybridization Of $\mu$ -Electrochemical Discharge Machining ( $\mu$ -ECDM) process: A Review	Sahil Grover, Sarbjit Singh, S.K. Mangal
11.10 am	22RASM 3030	Static Structural Investigation of Helical Compression Spring Utilizing Different Materials for an Automobile Suspension System	A.R. Udhaya, B. Rajeswari and T. Mugilan
11.30 am	22RASM 3035	Friction and Heat Treatment Studies on Al7075 Alloy Hybrid Composites	Gangadhar T.G, Adarsh B.C, Shankara D.R
11.50 am	22RASM 3036	Investigation of Mechanical Properties of Al6061 – Silicon Carbide, Red Mud Metal Matrix Composite	Gangadhar T G, V S Nanda, Mohan C, MukeshBava, Vikas
12.10 pm	22RASM 3037	Wear and Heat Treatment Studies on Al7075 Alloy Hybrid Composites	Gangadhar T.G, Shankara D.R, Adarsh B.C
12.30 pm	22RASM 3056	Effect of Various Pattern Stitching on Mechanical Properties of Jute Fibre Reinforced Composite	R Gukendran, M Sambath kumar, T PrakashRaj, S Nalinkumar, B Nivaas, B Sai Pranesh Kumar
02.00 pm	22RASM 3059	Optimisation of Process Parameters for Inconel 718 Spur Gear	Binita Kundu, Sumit Samanta, Debasis Ghosh, Kaushal Saha, Shibsankar Ghosh, Thia Paul
02.20 pm	22RASM 3066	Parametric analysis and optimization of the chassis of a Go kart competition vehicle by means of computational software based on mathematical algorithms	Héctor C. Terán, Oscar Arteaga, Fausto A. Jácome, Jonathan R. Zurita
02.40 pm	22RASM 3068	Experimental Investigation on Thermal Performance of Pulsating Heat Pipe by Using Dowtherm – A	Rudresha S, Babu E R

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Program Schedule of GC-RASM 2022

03.00 pm	22RASM 3074	The electrochemical degradation, wear behavior and machining of metal matrix composites based on 6xxx aluminum alloy with ceramic particulate reinforcements: A Brief Review	Abdullah Yahia Hassan, Abdulaziz Bahkali, Mohammad Yahya Meryahi, Ahmedgamil Alharbi, Haitham Hadidi, Mohammed Tharwan, Rajasekaran Saminathan
03.20 pm	22RASM 3090	Prediction of Single Cylinder Direct Injection Diesel Engine Performance Fuelled with Lemon Peel Oil Biodiesel Using Artificial Neural Network	Sivamani, S., Udayakumar, M., Sellappan, N.
03.40 pm	22RASM 4005	Micro Thermal Behavior of Ti-Mg Composite Processed through Friction Stir Processing	S.Selvakumar, S Aneesh, J.Rabi, N Mohammed Raffic K.Ganesh Babu

  
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**Session: ME04 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 04.00 pm

Session In-charge : Mrs. Snitha Shetty


Session in-charge Contact Number : +91 9019188570

Google Meet ID/Link : <https://meet.google.com/xgc-awec-exf>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 4006	Tribo-performance of Saw Dust Filled Natural Fiber – Glass Fiber Reinforced Epoxy Composites: Modelling and Optimization	Debrup Sarkar, Pranjal Borah, Sutanu Samanta, Nabam Teyi, Pulakesh Chetia, Roktutpal Borah
10.50 am	22RASM 4011	Investigations of the Combustion of Diesel engine with Anodizing of Piston Crown	Avvaru.Renuka Prasadaand Shree Prakash
11.10 am	22RASM 4014	Experimental investigation on cutting force during end milling of AISI D2 tool steel using AlCrN coated tool	Ravikumar D Patel, Sanket N Bhavsar, Anand K Patel
11.30 am	22RASM 4021	Quality characteristic optimization of Aluminum Bronze in CNC by using Taguchi's approach and ANOVA	Maneesh K, Muhammad Shan, Sejin Xavier, Vinayak M B, Shafeek
11.50 am	22RASM 4024	Influence of process parameters on Material addition rate and hardness of 3D Printer Material	Mekhala Sarkar, Sumit Samanta, Thia Paul
12.10 pm	22RASM 4027	Modelling and Analysis of Heavy Commercial Vehicle Suspension System For Fatigue Life Enhancement	Sohail Shaikh, Deepak Hujare, Shrikant Yadav, Prakhar Swarnakar
12.30 pm	22RASM 4033	A comparative analysis of exergy using dual blends of Biodiesel in a DI engine	Ramakrishna N. Hegde, Gangadhara Rao, Jagadeesh Bantwal and Praveen Shenoy
02.00 pm	22RASM 4037	An Exergy Analysis of Boil-off Gas Recovery Process	Bhalchandra Shingan, Karthikraja Pandiyan, Brahminder Singh, Rachit Gore
02.20 pm	22RASM 4044	Investigation of surface properties for additively manufactured SS316L parts: Effect of post-processing techniques	Pankaj Sahlot, Mohit Suthar, Vishal Ashok Wankhede
02.40 pm	22RASM 4046	Experimental Investigations of Machining Parameters on Polyamide 6 Using Single Point Incremental Forming	Aditya Kharche, Shivprakash Barve
03.00 pm	22RASM 4050	The effect of Mg-Al substitution, particle size reduction, and thickness of BaFe <sub>12-2x</sub> Mg <sub>x</sub> Al <sub>x</sub> O <sub>19</sub> samples on increasing electromagnetic wave absorption	Erlina Yustanti, Vini Hafidzatul Hakimah, Alfian Novianto, Maulana Randa, Maykel T. E. Manawan

Program Schedule of GC-RASM 2022

03.20 pm	22RASM 4056	Computational Analysis of Erosion Wear in Various Angle Bent Pipes	Latchupatula Ananya, Yatish Kumar Baghel, Vivek Kumar Patel
03.40 pm	22RASM 4060	Investigation on Anti-corrosion properties of TiO <sub>2</sub> -Nanocomposites on Stainless steel	Mai Ahmed Ali AlQaidi, Varghese ManappallilJoy, Nageswara Rao Lakkimsetty, Karunya S, Feroz Shaik

  
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**Session: ME05 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 04.00 pm

Session In-charge : Mrs. Divya A

Session in-charge Contact Number : +91 9480671109


Google Meet ID/Link : <http://meet.google.com/mga-oiuv-ptj>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 4068	CFD Simulation of Circumferential Crack in Low Pressure Water Pipelines	Subhanil Manna, Akash Kundu, Koustav Dey, Souvik Roy, Rohit Bhuit, Sandip Ghosh
10.50 am	22RASM 4072	Design and Modal analysis of Screw Agitator and Arm followed by Fabrication and Installation for dry mixing of ingredients to make ready-mix drinks	Ajinkya Bapat, and Shashikant S Goilkar
11.10 am	22RASM 4084	Lithium ion battery thermal management by using heat pipe coupled and liquid cold plate	Umesh Chavan, Omkar Prajapati, Pravin Hujare
11.30 am	22RASM 4095	Mechanism of Droplet Dynamics Formation in Micro-capillaries	Seim Timung, Sanskar Vaishnav, Shantanu Singh, Shubham Agarwal, Soumya Verma
11.50 am	22RASM 5011	Thermal Properties of Epoxy composites with Polyaniline and Graphene nanofiller	Dandapani, Devendra K
12.10 pm	22RASM 5013	Design and Development of Magneto-Rheological Damper for Vibration Attenuation in Household Washing Machine	Sagar Kulkarni, Uday Dabade, Prabhakar Maskar
12.30 pm	22RASM 5018	Effect of Cooling Technique and Tool Material on Ti6Al4v Alloy	Ganesh Dongre, Avdhoot Rajurkar, Suvarna Patil, Ravi Raut, Naina Joseph, Vaishnavi Mote, Harsh Raja, Sumeet Jangam
02.00 pm	22RASM 5019	Optimization of Machining Parameters in EDM of Inconel 625 Using Taguchi Approach	Himanshu Payal, Endale Fekadu, Abhishek Bhattacharya, Saigeeta Priyadarshini, Akanksha Mishra
02.20 pm	22RASM 5023	Evaluation of Emission Characteristics & Performance of a Biogas-Biodiesel Dual Fuel Engine Using Blends of Butanol in Different	Dilsher Khan, Geetesh Goga
02.40 pm	22RASM 5025	Fabrication and Characterization of Epoxy Solar Glass	Saigeeta Priyadarshini, Aman Prakash, Sanya Gupta, Akanksha Mishra, Himanshu Payal

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Program Schedule of GC-RASM 2022

03.00 pm	22RASM 5039	Performance Evaluation of Diesel Engine with Electroless Nickel coating on Piston Skirt	Avvaru.Renuka Prasad and Shree Prakash
03.20 pm	22RASM 5060	Innovative Design and Analysis of Plough for Vineyards	Pratik Katkade, Nikhil Joshi, Puskaraj D Sonawwanay
03.40 pm	22RASM 5074	Learning Based Motion Planning of a 6-DOF Manipulator by using a Neural Network	Akanksha Dwivedi, Jitendra Kumar

  
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**Session: PH03 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 04.00 pm

Session In-charge : Mrs. Deeksha Anand  
 Session in-charge Contact Number : +91 9901470397  
 Google Meet ID/Link : <https://meet.google.com/tak-zkww-isa>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 4073	Theoretical Predictions of Thermophysical Properties of BiSn Liquid Alloys at 600 K	Rajendra Prasad Chaudhary, Rupam Kumaria, Nitu Kumari, Jagdhar Mandal, Indu Shekhar Jha
10.50 am	22RASM 4074	Transition from segregating to ordering in AgSb liquid alloys at 1250 K	Anjani Bhartiya, Rajendra Prasad Chaudhary, Nitu Kumari, Jagdhar Mandal, Indu Shekhar Jha
11.10 am	22RASM 4083	Structural, Optical, Photoluminescence, Magnetic and Electrochemical Supercapacitor Application of Tin oxide nanoparticles	E. Manikandan, J.C. Kannan, V. Devabharathi, S. Pushpa, Nazir Ahmad Mala
11.30 am	22RASM 4087	Protective Coatings On Copper Using As-Deposited Sol-Gel TiO <sub>2</sub> - SiO <sub>2</sub> Films	M. Pratima, A. Subrahmanyam
11.50 am	22RASM 5014	Dielectric relaxation studies in WO <sub>3</sub> mixed lead vanadate glasses	Mohansingh Heerasingh, T. Sankarappa*, Amarkumar Malge, Ashwini Devidas, B. Raghavendra
12.10 pm	22RASM 5020	Enhanced Optical and Dielectric Properties of Polymer Dispersed Liquid Crystal for Display Applications	Santosh Mani, Krishnakant Mishra, Sameer Hadkar and Pradip Sarawade
12.30 pm	22RASM 5022	Effect of Gd <sup>3+</sup> doping on structural, vibrational, dielectric, and ferroelectric properties of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> ceramic	Bijayalaxmi Kuanar, Hari Sankar Mohanty, Biswajit Dalai, Dhruvananda Behera
02.00 pm	22RASM 5031	Prospect of Near-infrared Quantum Dots in the Development of Tandem Solar Cells: Detail Charge Balance Study	Uday Das
02.20 pm	22RASM 5034	Facile Synthesis and characterization of ZnSe nanoparticles	Prerna Gupta, Pushpanjali Patel, KM Sujata, Praveen Kumar Litoriya, Rekha Garg Solanki

Program Schedule of GC-RASM 2022

02.40 pm	22RASM 5050	Electronic properties of Ferrocene/Graphene interface on ferromagnetic surface and pyrolytic graphite	Abhishek Kumar, Ashish Kumar and Anwasha
03.00 pm	22RASM 5051	Advances in hybrid junction solar cells	Ashish Kumar, Harsha and Abhishek kumar
03.20 pm	22RASM 5079	Effects of Al <sup>3+</sup> concentration on the structural, dielectric and conductivity properties of Al-doped ZnO	CH. Kalyani, I.V. Subbareddy, P. Raju, P. Swaroop Raj
03.40 pm	22RASM 5086	Characteristics of Ni-P-CNF Electroless Nanocomposite Platings	M. Ram, S. K. Kimothi, S. Sharma, G. Gautam, A. Sharma

  
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**Session: EC 01 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 03.40 pm

Session In-charge : Mr. Sudesha Shetty M

Session in-charge Contact Number : +91 8050940728

Google Meet ID/Link : <https://meet.google.com/fbt-iarb-qzb>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 1044	Christmas-Tree Shaped Compact Microstrip Textile Antenna for Telemetry, ISM and X-band Applications	S. Salma, Habibulla Khan, B.T.P Madhav, B. Ram Charan, M. Hanumanth Ravi Kiran Reddy, T. Karthik, D. Ram Sandeep
10.50 am	22RASM 2012	Performance Optimization of Electrically Variable Double Gate Junctionless Transistor with HfO <sub>2</sub> Gate Dielectric	Achinta Baidya, Lalchuanawma Ralte, Lalramnunmawia Khawlhing, Zosangzeli, Pritam B Nikam, Niladri Pratap Maity
11.10 am	22RASM 2046	Design of Fabric Antennas for Body Protective Garment Applications and Analysis on their Performance	D.Ramesh Varma, B.Durga Saranya, G.Pavani, M.Subbarao, G.Challaram, D.Girish Kumar
11.30 am	22RASM 2090	Design of Compact and Wideband Circularly Polarized Irregular Octagonal-Shaped Antenna Using Characteristic Mode Analysis	Kshitij Jaiswal, Kamal Singh, Pawan Yadav, Manish Tripathi, Kuldeep Singh, Ankit Sharma
11.50 am	22RASM 3014	Enhanced Scanning Rate for SIW-LWA with continuous beam steering using delay lines	Hanfia Arif, Megha Gupta, Pooja Gupta and Ruchi Agarwal
12.10 pm	22RASM 3041	A Novel Piezoelectric Energy Harvester Configuration for Performance Enhancement	Naveen Tyagi, Anshu Mli Gaur, Aparna N. Mahajan
12.30 pm	22RASM 3053	Compact, Robust and Low-Profile Textile Antennas for Bio-Medical Applications with Upgraded Bandwidth for Integration of Easy Garment	D.Ramesh Varma, M.Murali, M.Vamshi Krishna
02.00 pm	22RASM 3092	On Demand Reconfigurable Notch-Based UWB MIMO Antenna For Wireless Application	Ranjana kumari, Arunsingh Rawat, Pranav Suri, Prabhakar Kaudinya, Kartikey Dwivedi
02.20 pm	22RASM 3098	The impact of plastic during the COVID-19 pandemic: The point of view of the environmental science literature	Fabiula Danielli Bastos de Sousa
02.40 pm	22RASM 4076	Impact of Source and Drain Position on Performance of Dual Gate Organic Thin Film Transistor	Nishi Mishra and Brijesh Kumar


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Program Schedule of GC-RASM 2022

03.00 pm	22RASM 4078	Design of UWB Antenna for Wireless Capsule Endoscopy	Thyla B Jaya Soumeyaa P K, Jennifer T, Maharishi S, Thulasi Bai V
03.20 pm	22RASM 5090	Synthesis and intense visible emission of Er <sup>3+</sup> / Yb <sup>3+</sup> ions codoped lithium tellurite glasses under UV and IR excitation	Shivangi Parashar, Kratika Parashar , G.F.Ansari, S. K. Mahajan

  
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**Session: EE 01 (ONLINE)**

Date: 29.07.2022

Time: 10.30 am to 03.00 pm

Session In-charge : Mrs. Vilma D'Souza

Session in-charge Contact Number : +91 9980016473

Google Meet ID/Link : <https://meet.google.com/viq-jkex-uda>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 1081	DPVM-SEC based Methodology to Reconfigure PV System and Characterization during PSCs: Experimental study through embedded system based DAS	Isha Kansal, Rupendra Kumar Pachauri
10.50 am	22RASM 1082	Frequency Regulation Analysis for Renewable Bio Generated Autonomous Multi-Microgrid Using Moth Flame Optimized Fractional Order Controller	Sadhan Gope, Galiveeti Hemakumar Reddy, Kshetrimayum Millaner Singh
11.10 am	22RASM 1097	Design optimization of Spoke IPM motor for improving efficiency using PSO and Rao-1 algorithm based FEA	Supriya Naik, Baidyanath Bag, Kandasamy Chandrasekaran
11.30 am	22RASM 2069	Performance study of Amorphous-Si thin-film solar cell for the recent application in photovoltaics	Subhasri Kar, Sumit Banerjee, C K Chanda
11.50 am	22RASM 2089	Assessment of physical and chemical water quality parameters using naive Bayes control algorithm	J. Jeyashanthi, J. Barsana banu, M. Pandi Maharajan, M. Ramuvel
12.10 pm	22RASM 3027	Effect of Core Losses on Thermal Analysis of 3 $\phi$ -Squirrel Cage Induction Motor Using Lumped Parameter Thermal Model	Sachin S., Krishnan Manickavasagam, A. T. Sriram
12.30 pm	22RASM 3079	Stand-alone transformer-less multilevel inverter fed by solar energy for irrigation purposes	Mustafa F. Mohammed, Mohammed A. Qasim, Vladimir I. Velkin
02.00 pm	22RASM 4064	Asymmetrical Interval Type-2 Fuzzy Logic Controller Based MPPT for PV System under Sudden Irradiance Changes	Nirmal Kumar Pandey, Rupendra Kumar Pachauri, S. Choudhury, Raj Kumar Sahu
02.20 pm	22RASM 4066	Design and Fabrication of Miniaturized DC-DC Converter on Silicon Substrate	Shivadharshini A, Snekha S L, Vignesh V, KR.Santha, M.Sasikala, Sudhakar Bharatan
02.40 pm	22RASM 4090	Effect of transport layer thickness in lead-based perovskite solar cell: a numerical simulation	Sadnan Sakib, Muhammad Yusof Mohd Noor, Mohd Rashidi Salim, Ahmad Sharmi Abdullah, Asrul Izam Azmi, Mohd Hisham Ibrahim and Mohd Haniff Ibrahim

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**Session: MA 01 (ONLINE)**

Date: 29.07.2022

Time: 11.30 am to 03.00 pm

Session In-charge : Mrs.Archana S

Session in-charge Contact Number : +91 8123591394

Google Meet ID/Link : <https://meet.google.com/hov-wqvt-mjd>

Time	Paper ID	Paper Title	Authors
10.30 am	22RASM 2009	Thermal radiation and Slip flow of viscoelastic-based Micropolar nanofluid with MHD effects on boundary layer	R. Manojkumar, S. Karthikeyan
10.50 am	22RASM 2011	Radial Basis Function Bipolar Fuzzy Neural Network	S.Anita Shanthi, R.Preethi and G. Sathiyapriya
11.10 am	22RASM 2031	Calculate the approximate volume of complex-shape solids	Raad Majd, Nedal Raed, Kiwan Modar, Popov Alexey Yurievich
11.30 am	22RASM 2037	A Bibliometric Analysis on Graphene Nanoplatelet for Sustainable Material	Weng Siew Lam, Pei Fun Lee, Weng Hoe Lam
11.50 am	22RASM 2064	Evaluating the quality factors of leaf plates by fuzzy TOPSIS method	S. Anita Shanthi, T. Umamakeswari
12.10 pm	22RASM 2082	Decision making problem on sustainable building material	S. Anita Shanthi, M. Gayathri
12.30 pm	22RASM 2092	Parametric study of MHD, Heat absorption/generation and diffusion of mass on one dimensional unsteady, chemically reacting flow employing Finite Element method	Ramesh Kune, S. Jagadha, S Hari Shing Naik, N. Kishan, D Gopal
12.50 pm	22RASM 5029	Evaluating the Effects of Microscopes in Bipolar Intuitionistic Fuzzy Soft Expert Environment	N. Nishadevi, M. Saranya, S. Anita Shanthi
02.00 pm	22RASM 2050	Adsorption of Cytosine on Si and Ge doped Graphene: A DFT Study	Shamsan Ali, Baliram Lone
02.20 pm	22RASM 3051	Effects of barrier Chemicals on Flame Retardant Properties of inherently flame retardant fabric	RG Revaiah, TM Kotresh, K Balasubramanian
02.40 pm	22RASM 5088	Study of modeling of cyclohexanol and polystyrenepolymer solution at T=453.15K and T=493.15TK usingUNIFAC-FV	Prithwi Raj Nayakand Binay Prakash Akhouri



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust ®

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)

<b>NAME OF THE EVENT:</b>	<b>Second Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2022)</b>
<b>ORGANISING DEPARTMENT / COMMITTEE :</b>	<b>Department of Civil Engineering, Department of Mechanical Engineering, Department of Basic Sciences and Humanities.</b>
<b>DATE :</b>	<b>28-07-2022 and 29-07-2022</b>
<b>NAME OF THE RESOURCE PERSON :</b>	<p>Keynote 1 – 28-07-2022 <b>Dr. V.N Mani</b> Scientist-E, Head, High Pure Electronic Materials, Devices &amp; Systems Development Division Centre for Materials for Electronics Technology(C-MET) Department of Electronics &amp; Information Technology, Govt. of India</p> <p>Keynote 2 – 28-07-2022 <b>Dr. Dattatraya Narayan Gaonkar</b> Department of Electrical and Electronics Engineering, National Institute of Technology Karnataka Surathkal (NITK)</p> <p>Keynote 3 – 29-07-2022 <b>Mohamad Nur Khairul Hafizi Rohani</b> Senior Lecturer and the Program Chairperson of the Diploma of Electrical Engineering Universiti Malaysia Perlis</p> <p>Keynote 4 – 29-07-2022 <b>Syahrin Nizam Md Arshad</b> Senior Lecturer at Faculty of Electrical Engineering Technology, UniMAP and Head of High Voltage and Transient (HVTrans) Research Group. Universiti Malaysia Perlis</p>
<b>REGISTRATION DETAILS</b>	<p><b>211 participants in Virtual mode &amp; 14 participants in physical mode.</b></p> <p>Total manuscripts received: 594 Total manuscripts accepted: 281 Total papers registered: 225 No. of foreign registrations: 20 Foreign countries in GC-RASM 2022: 12 Bangladesh, Brazil, Ecuador, Indonesia, Iraq, Malaysia, Mexico, Nepal, Nigeria, Oman, Saudi Arabia and Taiwan</p>
<b>Conference publication</b>	

A two day Second Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2021) was inaugurated on 28-07-2022 in Seminar Hall-1 at AJIET Campus. The inaugural function started by 9.35 a.m. and the delegates were escorted to dais by Chief convenor of GC-RDCT 2021 Dr. Kiran Kumar V.G.

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and Chief convenor of GC-RASM 2022 Dr. Sangeetha D.M. The Guest of the function was Dr. Mani V.N., Scientist, C-MET, Telangana., Guest of Honor was Dr. Thangaprakash S, Director, Diligentec Solutions, Coimbatore and the function was presided was Dr. Shantharama Rai C., Principal, AJIET, Mangalore. Ms. Tanishka and Aishwarya evoked the blessings of almighty with a prayer song. Dr. Sangeetha D.M. welcomed the gathering and Dr. Kiran Kumar V.G. gave a brief introduction about the chief guest and Guest of honor of the event.

Dr. Thangaprakash S. briefed about the conference followed by the releasing of the conference proceedings by the dignitaries on the dias. Chief Guest of the Program Dr. Mani V N., delivered address to the gathering. Presidential address was delivered by Principal Dr. Shatharama Rai C. Vote of Thanks was delivered by R&D member Prof. John Prakash Veigas.

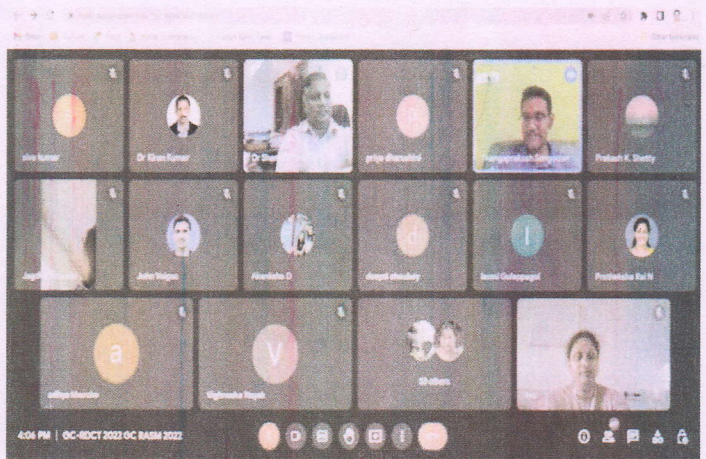
Day 1 28.7.2022- The program started with Keynote session 1 at 10.30 a.m., followed by keynote session 2 at 11.30 a.m. Altogether around 12 parallel sessions started by 12.15 p.m. out of which 10 sessions were held virtually using Google meet platform and 02 physical sessions. 15 papers were presented physically which included participants from 5 states (Kerala, Tamil Nadu, Karnataka, Gujrat and AndhraPradesh) and 2 countries (Taiwan and Oman).

Day 2- 29.7.2022: Keynote session 3 started by 9.30a.m. followed by Keynote session 4 at 10.00 a.m. Thereafter nine (12) parallel sessions were started simultaneously by 10.30 a.m.

Valedictory: In the evening by 4.00 p.m. valedictory session was held virtually via Google Meet. Dr. Kiran Kumar V G. welcomed the gathering. Principal Dr. Shantharama Rai C., delivered the presidential address. Dr. Thangaprakash S., delivered Valedictory Speech. Few researchers and Session chairs shared their valuable feedbacks. Dr. Thangaprakash S., shared the concluding remarks of the conference followed by Vote of thanks by Dr. Sangeetha D.M. The session concluded by 4.30p.m.




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*Sangeetha*  
CONVENOR

CC To:


1. President, LMET,
2. Vice President, LMET

  
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Principal  
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2022 Second Global Conference on

# Recent Developments in Computer and Communication Technologies

28 – 29, July 2022 | Mangalore, Karnataka, India | www.gc-rdct.com



HYBRID MODE

## GC-RDCT 2022

The scope of the 2022 Second Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022) is to provide a forum for researchers, scientists, academicians, scholars and practitioners around the world to present papers on recent developments in the broad fields of Computers and Communication technologies. The GC-RDCT 2022 aims to bring together leading academic scientists, researchers and research scholars to exchange innovative and novel ideas, share field trial experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on people, society and environment. We invite industrial and academic professionals from across the world in the fields of computer and communication technologies to discuss and exchange ideas in the areas of world's great importance such as computer, electronics, information and communication technologies. The conference also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the above fields.

## Call for papers

GC-RDCT 2022 invites full length original research contributions from engineering professionals from industries, R&D organisations, academic institutions, government departments and research scholars from across the world. Full length original research contributions and review articles in the IOP single column format shall be submitted. There is NO PAGE LIMIT. The manuscript template shall be found in the downloads section. The manuscript should contribute original research ideas, developmental ideas, analysis, findings, results, etc. The manuscript should not have been published in any journals/magazines or conference proceedings and not under review in any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors.

Soft copy of the full length manuscripts (in .doc and .pdf) shall be submitted to gc-rdct@ajiet.edu.in.

## Topics (but NOT limited to)

**Track 1 - Electronics and Communication Engineering**  
Broad Band Communication | Computer and Intelligent Communication | Mobile and Optical Communication | Wireless Communication | Mobile and Optical Networks | Wireless Sensor Networks | Network Security | Advanced VLSI Systems | Embedded Wireless Systems | Medical Informatics | Hardware Engineering | Mechatronics | Automation

**Track 2 - Computer Science and Engineering**  
Geo-informative Systems | Grid Computing | Pervasive Computing | Digital Image and Video Processing Computer Vision and Image Analysis | Data Mining and Cloud Computing | Computer Architecture | Computer Networks | Distributed Computing | Artificial Intelligence & Soft Computing | Optimization Techniques | Human-Computer Interaction | Theoretical Computer Science | Computer Applications | Expert Systems

**Track 3 - Electrical Engineering**  
Electrical and Electronic Materials and Process | Semiconductor Technology | Power Systems and Energy Engineering | Soft Computing Techniques in Power Systems | Transmission and Distribution System and Apparatus | Instrumentation & Feedback Control Systems | Power Electronics & Energy Efficient Drives | Renewable Power Conversion Technologies | Power Quality Improvement Techniques | HVDC/FACTS | Electrical Machines and Industry Applications | Bio-medical Engineering | Intelligent Systems | High Voltage Engineering & Insulation Technology | Photo/Opto Electronics

**Track 4 - Advanced Materials**  
Biomaterials | Composite Materials | Energy Storage and Conversion Materials | Renewable Materials | Functional Materials | Nano Materials | Building Materials | Chemical Materials | 3D Materials | Cryogenic Materials | Polymer Science | Smart/Intelligent Materials/Intelligent Systems | Optical/Electronic/Magnetic Materials | Automation, Control and Information Technology | Magnetic Materials and Smart Materials for Specific Applications | MEMS and Structural Control | Active Materials in MEMS Applications | Materials Property and Characterisation | Thin Film Technology

## Registration fee details

Category	Indian authors	Foreign authors
Graduate students	Rs. 7,500	USD 200
Research scholars / Academicians	Rs. 8,000	USD 200
Industry / Others	Rs. 10,000	USD 200
Listeners*	Rs. 2,000	USD 100
Poster**	Rs. 4,000	USD 150
Additional page charge**	Nil	Nil
Conference kit and print proceedings***	Rs. 2,000	USD 100

The registration fee includes the PUBLICATION FEE for IOP: Materials Science and Engineering. Registration is per paper not per author. One full registration covers participation and e-certificates for all authors along with e-proceedings. More than one authors can be allowed under "Listener" category.

\*For additional author participation | \*\*Presentation and publication in print proceedings with ISBN only | \*\*\*No page limit

\*\*one conference kit, proceedings, conference complements and participation ticket for one author during the conference.

## Contact details

Mobile & WhatsApp  
(+91) 97894 89103

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gc-rdct@ajiet.edu.in

Website  
www.gc-rdct.com



The book of proceedings of GC-RDCT 2021 with all the accepted papers will be published in the following IOP Conference Series

**IOPscience**  
**Materials Science and Engineering**  
A Conference Proceedings Journal

## Indexing and Abstracting

The book of proceedings of GC-RDCT 2020 will be indexed in

Conference Proceedings Citation Index – Science (CPCI-S)  
(Thomson Reuters, Web of Science)

El - Compendex

EX Libris Primo

Inspecc

Chemical Abstracts Service

INIS (International Nuclear Information System)

NASA Astrophysics Data System

SPIRES

VINITI Abstracts Journal (Referativnyi Zhurnal)

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## Important dates

Last date for paper submission	15, June 2022
Notification of acceptance	25, June 2022
Registration commencement	05, May 2022
Registration deadline	05, July 2022
Camera Ready Paper (CRP) submission	05, July 2022
Conference date(s)	29 - 30, July 2022

Web of Science  
Indexing & Abstracting

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Second Global Conference on  
**Recent Developments in Computer and Communication Technologies**  
**(GC-RDCT 2022)**

28 - 29, July 2022 | Mangalore, India | [www.gc-rdct.com](http://www.gc-rdct.com)

**Program Schedule**

Date	Time	Event
28.07.2022	09.30 am to 10.00 am	Inaugural Function
28.07.2022	10.00 am	Keynote 1
28.07.2022	10.45 am	Keynote 2
		Session: <b>PHY</b> (Offline)
28.07.2022	11.30 am to 05.15pm	Session: <b>CS01</b> (Online)
		Session: <b>EC01</b> (online)
		Session: <b>ME01</b> (online)
29.07.2022	10.00 am	Keynote 3
29.07.2022	10.30 am to 04.00 pm	Session: <b>CS02</b> (online)
		Session: <b>EC02</b> (online)
		Session: <b>EE01</b> (online)

CS-Computer Science & Information Technology  
 EE- Electrical Engineering & Applied Physics  
 EC - Electronics Engineering  
 ME -Mechanical Engineering

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Program Schedule of GC-RDCT 2022

Note:

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given
4. Mode of presentation should be powerpoint presentation (ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes (Queries)
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) GC-RDCT Whatsapp group during presentation date(s).

**Session: PHY (Physical session)**

Date: 28.07.2021

Time: 11.30 am to 05.00 pm

Session In-charge: Will be added

Venue: Seminar Hall

Paper ID	Title
22RDCT 3010	Processing and tribological behaviour of carbon fiber reinforced polylactic acid composites

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**Session: CS 01**

Date: 28.07.2021

Time: 11.30 am to 05.00 pm

Session In-charge : Mrs. Sharanya P S

Session in-charge Contact Number : +91 81057 63404

Google Meet ID/Link : <https://meet.google.com/zeh-idab-qju>

Time	Paper ID	Paper Title
11.30 am	22RDCT 2016	Bi-LSTM-LDA– A Topic Modelling Technique to Identify the Relevant Law for Indian Legal Cases
11.50 am	22RDCT 2017	A Survey on Automatic Plant Recognition Approaches
12.10 pm	22RDCT 2021	Intelligent Crop Recommendation with Yield Prediction using Dragonfly Algorithm Based Deep Learning Model
12.30 pm	22RDCT 2022	Data Quality Assessment Using Benfords Law and Excel
02.00 pm	22RDCT 2034	LoRa-based IoT Applications on Campus: Experimental Demonstrations and Performance Evaluation
02.20 pm	22RDCT 2035	Scheduling in LoRa Gateways for Packet Loss Reduction
02.40 pm	22RDCT 2053	Types of attacks in application layer used in various applications – An overview
03.00 pm	22RDCT 2096	A smart resume screening tool for customized shortlisting
03.20 pm	22RDCT 3016	Classification of depression on social media using Distant Supervision
03.40 pm	22RDCT 3017	Cryptography using Automata Theory
04.00 pm	22RDCT 3023	Crowd Density Estimation Using Deep Learning Techniques
04.20 pm	22RDCT 3025	Review on Automatic Diagnosis of Autism Spectrum Disorders using Multi-Atlas Graph Convolutional Networks and Ensemble Learning
04.40 pm	22RDCT 3054	A Software Development Lifecycle Case Study on : Diet Recommendation System based on User Activities

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**Session: EC 01**

Date: 28.07.2021

Time: 11.30 am to 05.15 pm

Session In-charge : Mr. Vijaykumar Dudhanikar  
 Session in-charge Contact Number : +91 9880129398  
 Google Meet ID/Link : <https://meet.google.com/ajz-dxpp-vmk>

Time	Paper ID	Paper Title
11.30 am	22RDCT 2019	Generation of Pulse Sequence using EMG Signals for Application in Transfemoral Prosthesis
11.50 am	22RDCT 2025	DUAL BAND-NOTCHED ANTENNA DESIGN USING COMPOSITE RIGHT/ LEFT HANDED METAMATERIAL
12.10 pm	22RDCT 2037	Design of low cost IoT enabled greenhouse control system for precision agricultural research application
12.30 pm	22RDCT 2045	Design Of Microstrip Patch Antenna for 5G Mobile Communication
02.00 pm	22RDCT 2048	Optimization of Circularly Polarized Wideband Microstrip Antenna Using Machine Learning
02.20 pm	22RDCT 2059	Design of SIW based Frequency Reconfigurable Antenna for K/Ku band applications
02.40 pm	22RDCT 2068	Design of a Radiation Pattern Reconfigurable Leaky Wave Antenna
03.00 pm	22RDCT 2077	Performance comparison of channel coding techniques for OFDM systems
03.20 pm	22RDCT 2091	64 Bit Binary Counter with Minimal Clock Period
03.40 pm	22RDCT 2092	Design of Two Stage OTA based Sixth Order Butter- worth Low Pass Filter using CMOS 180nm Technology
04.00 pm	22RDCT 2094	A Spear-head shaped UWB MIMO Antenna with triple notch-based characteristics for Wireless applications
04.20 pm	22RDCT 2097	Traffic Signboard Recognition and Text Translation System using Word Spotting and Machine Learning
04.40 pm	22RDCT 2099	Brain Tumor Localization using Deep Learning
05.00 pm	22RDCT 3008	Monitoring and Control of Process Parameters inPalmJaggery Production

Program Schedule of GC-RDCT 2022

**Session: ME 01**

Date: 28.07.2021

Time: 11.30 am to 05.00 pm

Session In-charge : Mr. Rakesh M. R.

Session in-charge Contact Number : +91 9731582542

Google Meet ID/Link : <http://meet.google.com/mxu-gexr-geu>

Time	Paper ID	Paper Title
11.30 am	22RDCT 2007	A comprehensive overview of the use of integrated sensory technology in Dimensional Metrology inspection
11.50 am	22RDCT 2055	Pipe inspection Robot: a review
12.10 pm	22RDCT 2056	Combustion studies on eco-friendly ground fireworks
12.30 pm	22RDCT 2088	Study of active magnetic bearings (AMB) on non-synchronous rotors
02.00 pm	22RDCT 3037	Magnification of energy transmission ratio using miniature cycloidal gear box for humanoids
02.20 pm	22RDCT 3069	Design and analysis of energy efficient wind turbine blades
02.40 pm	22RDCT 3075	Tensile and thermal behavior of linear low-density polyethylene nanocomposite films
03.00 pm	22RDCT 4004	Influence of Different Parameters on the Specific Wear Rate of PTFE Composites in the Steam Environment
03.20 pm	22RDCT 4031	Review on Automation Using Machine Vision System for Inspection of Mechanical Parts
03.40 pm	22RDCT 4034	Edge Blending to Enhance the Flow over Double delta wing configuration during re-entry
04.00 pm	22RDCT 4049	Smart storage box for aligners
04.20 pm	22RDCT 4094	Study of LCF behaviour and life estimation based on modified SWT model and enhanced strain energy density of Ti-6Al-4V ELI

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**Session: CS 02**

Date: 29.07.2021

Time: 10.30 am to 04.00 pm

Session In-charge : Mr. John Prakash Veigas

Session in-charge Contact Number : +91 9482038836

Google Meet ID/Link : <https://meet.google.com/wbt-sope-ydr>

Time	Paper ID	Paper Title
10.30 am	22RDCT 3078	Software Controller using hand Gestures
10.50 am	22RDCT 3082	Comparison of performance of machine learning algorithms for diabetes detection
11.10 am	22RDCT 3095	Diagnosis of Maize Leaf Diseases Using Pre-Trained Convolutional Neural Networks: A Comparative Survey
11.30 am	22RDCT 4017	Blockchain-Based Land Record System
11.50 am	22RDCT 4026	Multivariate Adaptive Regression Splines (Earth) Applied to Software Development Effort Estimation
12.10 pm	22RDCT 4046	Security Of Medical Data Using Paillier And Elgamal Encryption And Decryption
12.30 pm	22RDCT 4050	A Deep CNN based Diagnostic Model for detection of COVID-19 from CT Scan Images
12.50 pm	22RDCT 2052	Optimization-based feature selection and categorization using correlation coefficients for the nephrotic disease
02.00 pm	22RDCT 4055	Transfer Learnt Antispoof(TLA) Framework for FaceBiometric System
02.20 pm	22RDCT 4058	Chat Application Using Homomorphic Encryption
02.40 pm	22RDCT 4063	Image Deconvolution using Deep learning-based Adams Optimizer
03.00 pm	22RDCT 4064	Supervised Learning System for Pest Disease Identification and Recommendations using Wireless Sensor Network in Agriculture Domain
03.20 pm	22RDCT 4077	Online Donation System using Full stack Development
03.40 pm	22RDCT 4082	Emotion aware Tamil speech synthesizer for dysarthric speakers

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**Session: EC 02**

Date: 29.07.2021

Time: 10.30 am to 04.00 pm

Session In-charge : Mr.Vinayak G Pai

Session in-charge Contact Number : +91 9535011938

Google Meet ID/Link : <https://meet.google.com/fws-dwhf-nbu>

Time	Paper ID	Paper Title
10.30 am	22RDCT 3020	Heart Disease Prediction System
10.50 am	22RDCT 3021	Design and Analysis of SRAM cell Using Sleep Transistor and GALEOR Technique
11.10 am	22RDCT 3022	Multilayer Cylindrical Dielectric Resonator Antenna for Millimeter Wave 5G Application
11.30 am	22RDCT 4009	An IP core of AMBA bus interface in HDL
11.50 am	22RDCT 4016	Advanced Single Chip Array Implementation in FPGA Using Advanced Encryption Standard Algorithm
12.10 pm	22RDCT 4035	Performance Analysis of Two-Bit Comparator using Transmission Gate
12.30 pm	22RDCT 4045	A FPGA Implementation of Enhanced Montgomery Modular For Fast Multiplication
02.00 pm	22RDCT 4084	Effect of Underwater Parameters on Two-Terminal Reliability Analysis of Underwater Acoustic Sensor Network in Shallow Water
02.20 pm	22RDCT 4087	Design and Performance Improvement of 10T SRAM Using Sleepy Keeper and Drain Gating Techniques
02.40 pm	22RDCT 4095	Prediction of Diabetic Retinopathy in fundus imaging with CNN visualisation model MobileNetV2
03.00 pm	22RDCT 4097	Design of Improved Band Gap Reference Circuit for CS-VCO Application Using 180nm CMOS Technology
03.20 pm	22RDCT 3019	Insights into the Recent Advances in Nanomaterial Based Electrochemical Sensors for Pesticides in Food
03.40 pm	22RDCT 4048	Structural, Dielectric and Ferroelectric Characterizations of Sol-gel derived Strontium Doped Barium Titanate Nanoceramics

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**Session: EE 01**

Date: 29.07.2021

Time: 10.30 am to 04.00 pm

Session In-charge : Mrs. Vishmitha S. Shetty

Session in-charge Contact Number : +91 9743702278

Google Meet ID/Link : <https://meet.google.com/yim-cceq-zfx>

Time	Paper ID	Paper Title
10.30 am	22RDCT 2011	Performance Analysis of Five level CHBMLI by LSPWM & PSPWM Modulation Technique
10.50 am	22RDCT 2012	LMS Adaptive FIR Filter-Predictive controller based on d-q control theory for Grid Connected Solar PV system
11.10 am	22RDCT 2042	Implementation and Validation of Smart sensors for Smart Grid
11.30 am	22RDCT 2043	A Cascaded Multilevel Inverter design based Harmonic Optimization using TLBO Algorithm for Wind Energy System
11.50 am	22RDCT 2062	Simulation of Harmonics Response of Shunt Active Power Filter using Feed Forward Neural Network
12.10 pm	22RDCT 3035	Hybrid Electric Vehicle Design and Simulation Performance Using Isolated DC/DC Converter Based MFO Algorithm
12.30 pm	22RDCT 5001	Safety Analysis For Fast Breeder Reactor
02.00 pm	22RDCT 5002	Advanced Safety Programmable Logic Controller And Operational Programmable Logic Controller For Data Acquisition Control System Of SADHANA Sodium Loop
02.20 pm	22RDCT 2030	Preparation of Ni <sup>2+</sup> and Co <sup>2+</sup> doped lithium based Ferrites by chemical sol-gel method and characterization of the electromagnetic properties
02.40 pm	22RDCT 2057	Evaluation of dipole moments of indole derivative (5-MPIC) by Solvatochromic shift method
03.00 pm	22RDCT 2063	To Study Structure Characterization and Rietveld Refinement of CoNa[Fe(CN) <sub>4</sub> ] Nano Composite prepared with Coprecipitation technique
03.20 pm	22RDCT 4032	Trace arsenic quantification by hydride generation-flame atomic absorption spectrometry: nanocellulose as solid-phase extraction biosorbent for preconcentration
03.40 pm	22RDCT 4040	Investigation of Dielectric Spectroscopy of Tellurium (Te) doped Bismuth Antimony (BiSb) pellet

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# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)

<b>NAME OF THE EVENT:</b>	<b>Second Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022)</b>
<b>ORGANISING DEPARTMENT / COMMITTEE :</b>	<b>Department of Information Science &amp; Engineering, Department of Computer Science &amp; Engineering, Department of Electronics &amp; Communication Engineering.</b>
<b>DATE :</b>	<b>28-07-2022 and 29-07-2022</b>
<b>NAME OF THE RESOURCE PERSON :</b>	<p>Keynote 1 – 28-07-2022 <b>Dr. V.N Mani</b> Scientist-E, Head, High Pure Electronic Materials, Devices &amp; Systems Development Division Centre for Materials for Electronics Technology(C-MET) Department of Electronics &amp; Information Technology, Govt. of India</p> <p>Keynote 2 – 28-07-2022 <b>Dr. Dattatraya Narayan Gaonkar</b> Department of Electrical and Electronics Engineering, National Institute of Technology Karnataka Surathkal (NITK)</p> <p>Keynote 3 – 29-07-2022 <b>Mohamad Nur Khairul Hafizi Rohani</b> Senior Lecturer and the Program Chairperson of the Diploma of Electrical Engineering Universiti Malaysia Perlis</p> <p>Keynote 4 – 29-07-2022 <b>Syahrin Nizam Md Arshad</b> Senior Lecturer at Faculty of Electrical Engineering Technology, UniMAP and Head of High Voltage and Transient (HVTrans) Research Group. Universiti Malaysia Perlis</p>
<b>REGISTRATION DETAILS :</b>	<p>Total manuscripts received: 304 Total manuscripts accepted: 128 Total papers registered: 80 No. of foreign registrations: 03 Foreign countries in GC-RDCT 2022: 02 AUSTRALIA, VIETNAM</p>
<b>Conference Proceedings Link:</b>	

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A two day Second Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022) was inaugurated on 28-07-2022 in Seminar Hall-1 at AJIET Campus. The inaugural function started by 9.35 a.m. and the delegates were escorted to dais by Chief convenor of GC-RDCT 2022 Dr. Kiran Kumar V.G. and Chief convenor of GC-RASM 2022 Dr. Sangeetha D.M. The Guest of the function was Dr. Mani V.N., Scientist, C-MET, Telangana., Guest of Honor was Dr. Thangaprakash S, Director, Diligentec Solutions, Coimbatore and the function was presided was Dr. Shantharama Rai C., Principal, AJIET, Mangalore. Ms. Tanishka and Aishwarya evoked the blessings of almighty with a prayer song. Dr. Sangeetha D.M. welcomed the gathering and Dr. Kiran Kumar V.G. gave a brief introduction about the chief guest and Guest of honor of the event.

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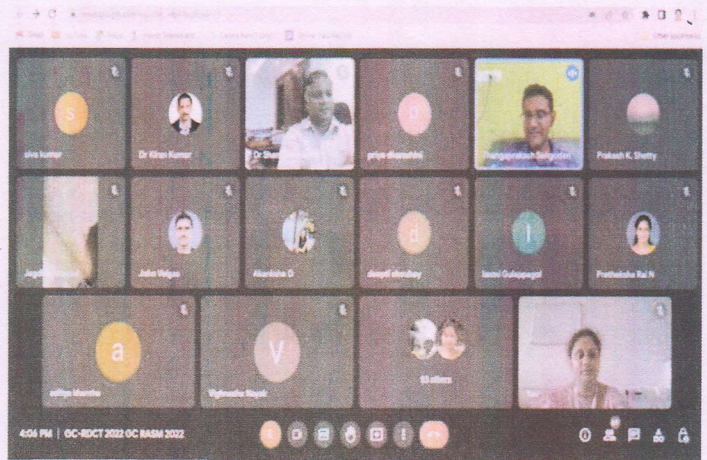
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Mangaluru - 575 008



*Sangeetha*  
**CONVENOR**

**CC To:**

1. President, LMET,
2. Vice President,
3. LMET

*(Handwritten mark)*  
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