




GRIET/6C/G/20-21

## EVENT SUMMARY REPORT

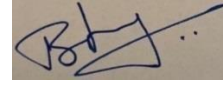
<b>Griet/Other institutes/Organization Address:</b>	<b>Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally, Hyderabad.</b>				
<b>Department</b>	<b>Mechanical Engineering</b>	<b>Professional Body</b>		<b>Institutional Body</b>	
<b>Nature of the Event</b> (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	<b>Conference</b>				
<b>Title / Theme of the Event</b>	<b>13<sup>th</sup> International Conference on Materials Processing and Characterization</b>				
<b>Details of the Coordinator &amp; Designation</b>	Dr. Swadesh Kumar Singh, Professor, Department of Mechanical Engineering, Hyderabad.				
<b>Event Dates/Days</b>	From	To	No. of Days		
	22/04/2022	24/04/2022	03		
<b>Details of the Speaker / Guest</b> Organization Address:	Details of the speaker has been attached separately				
<b>Participants</b> (Teaching Faculty / Non-Teaching Faculty / Students)	No.of Faculty	No. of UG students	No.of PG Students	No.of outside participants	Total Participants
	20	59	7	239	325
<b>Faculty Names &amp; Designation</b>	List of the participants has been attached separately				

<p><b>Summary of the Event</b></p>	<p><b>13<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC)</b> has been conducted in <b>GRIET</b> from 22<sup>nd</sup> to 24<sup>th</sup> April, 2022, at <b>GRIET, Hyderabad</b>. This program has been conducted for three (3) days in which a total of Nine (09) Keynote Address and Thirty Two (32) parallel sessions has been conducted.</p>
<p><b>IRG (in rupees)</b></p> <p><b>Deposited A/C no A/C name and date and other details</b></p> <p><b>(enclose proof-A/C statement)</b></p>	<p>Nil</p>
<p><b>Expenditure (in rupees)</b></p> <p><b>(Enclose proof-bills)</b></p>	<p>Nil</p>
<p><b>POs attained with this Event</b></p> <p>(number and description)</p>	<p>Seven (7) POs has been attained with this event</p> <ol style="list-style-type: none"> <li>1. Ability to analyze problem and interpret the data.</li> <li>2. Ability to design a system component, or process to meet desired needs in Mechanical Engineering within realistic constraints.</li> <li>3. Ability to identify, formulate, analyze and interpret data to solve Mechanical Engineering problems.</li> <li>4. Ability to understand the impact of engineering solutions in a global, economic and societal context.</li> <li>5. Ability to understand the effect of Mechanical Engineering solutions on environment and to demonstrate the need for sustainable development.</li> <li>6. Ability to understand professional and ethical responsibility.</li> <li>7. Ability to demonstrate the management principles in Mechanical Engineering projects.</li> </ol>
<p><b>Photographs of the event</b></p> <p>(Hard copy and Soft copy)</p>	

<b>Proofs:</b> <b>1.Certificates copies</b> <b>2.Profile of Speaker</b> <b>3.PPT/Material as applicable. etc.,</b>	All the documents are attached separately.
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**Signature of Coordinator**



**Signature of HOD**



# 13<sup>th</sup> INTERNATIONAL CONFERENCE ON Materials Processing and Characterization

© GRIET, Hyderabad 22<sup>nd</sup>-24<sup>th</sup> April 2022



## Program Schedule

### Meeting link for Inauguration, Keynotes and Valedictory

<https://us06web.zoom.us/j/8019548364?pwd=QjBHb1J2OU90TXZQTGdidi9od1BZUT09>

Meeting ID: 801 954 8364

Pwd: 1234

### Contact No. for Help Desk

Mr. Mahesh : 99598 70257

Dr. Baloji : 95056 13159

### Timings for Help Desk

22 April, 2022 08:00 a.m to 01:00 p.m

23 April, 2022 01:00 p.m to 05:00 p.m

24 April, 2022 01:00 p.m to 04:00 p.m

## Day 1 April 22, 2022

### Inaugural Function

08:20a.m - 09:45a.m

Programme	Time
<i>Introducing guests, Editors and Conveners</i>	8:20 a.m
<i>Address by Principal GRIET, Prof J Praveen</i>	8:30 a.m
<i>Address by Dr. Chetan Nikhare, Pennsylvania State University, USA (Editor and Convener)</i>	8:35 a.m
<i>Address by Dr. Julfikar, Manchester Metropolitan University, UK (Editor and Convener)</i>	8:45 a.m
<i>Address by Dr. Asma Perveen, Nazarbayev University, Kazakhstan (Convener)</i>	8:55 a.m
<i>Address by Prof Rajesh Purohit MANIT Bhopal (Convener)</i>	9:05 a.m
<i>Address by Prof Abid, AMU Aligarh</i>	9:15 a.m
<i>Address by Prof Swadesh Kumar Singh, GRIET Hyderabad</i>	9:25 a.m
<i>Vote of thanks by Dr. Tanya, HOD GRIET Hyderabad</i>	9:35 a.m

**Day 1**  
**April 22, 2022**

<b>KeyNote Address-1</b> Speaker: <b>Prof. Sachin D. Kore</b> Department of Mechanical Engineering at IIT Goa Topic: <b>Electromagnetic Forming of Sheets and Tubes</b> <b>Session Moderator: Dr. Manoj Gupta, Scientist, IPR Gandhinagar</b>	10:00a.m – 11:00a.m
<b>KeyNoteAddress-2</b> Speaker: <b>Dr. Arnab Chanda</b> Center for Biomedical Engineering, IIT Delhi. <b>Topic:Development of Artificial Tissue Simulants for Biomechanical Testing</b> <b>Session Moderator:Dr. Manoj Gupta, Scientist, IPR Gandhinagar</b>	11:00a.m – 12:00p.m
<b>Lunch Break</b>	12:30p.m – 01:30p.m
<b>ONLINE SESSION-1</b>	01:30p.m – 04:00p.m
<b>OFFLINE SESSION-1</b>	01:30p.m – 04:00p.m
<b>ONLINE SESSION-2</b>	05:00p.m – 07:30p.m

**Day 2**  
**April 23, 2022**

<b>Programme</b>	<b>Time</b>
<b>KeyNote Address-4</b> Speaker: <b>Dr. Anupam Agrawal</b> Department of Mechanical Engineering at IIT Ropar <b>Topic: Advancement in Sheet Metal Forming Processes for Customized Solutions</b> <b>Session Moderator: Dr. Manish Vishwakarma, Assistant Professor, MANIT Bhopal</b>	09:00a.m – 10:00a.m
<b>KeyNote Address-3</b> Speaker: <b>Dr. Bibhudutta Rout</b> Department of Physics at University of North Texas, Denton, USA <b>Topic: Materials modification and Analysis using Ion Beams</b> <b>Session Moderator: Dr. Manish Vishwakarma, Assistant Professor, MANIT Bhopal</b>	10:00a.m – 11:00a.m
<b>KeyNote Address-5</b> Speaker: <b>Dr. Tapati Sarkar</b> Department of Materials Science and Engineering, Uppsala University, Sweden <b>Topic: Designing nanocomposites of functional oxides</b> <b>Session Moderator: Prof .Rajesh Purohit, Professor, MANIT Bhopal</b>	11:00a.m – 12:00p.m
<b>KeyNoteAddress-6</b> Speaker: <b>Prof. Alope Kanjilal</b>	12:00p.m – 01:00p.m

Professor, School of Natural Sciences, Shiv Nadar University <b>Topic: Temperature Driven dual band formation in TiO<sub>2</sub> nanotubes for improving photocatalytic behavior</b> <b>Session Moderator: Prof .Rajesh Purohit, Professor, MANIT Bhopal</b>	
<b>Lunch Break</b>	01:00p.m – 02:00p.m
<b>ONLINE SESSION-3</b>	02:00p.m – 04:30p.m
<b>OFFLINE SESSION-2</b>	02:00p.m – 04:30p.m
<b>ONLINE SESSION-4</b>	05:00p.m – 07:30p.m

**Day 3**  
**April 24, 2022**

<b>Programme</b>	<b>Time</b>
<b>KeyNoteAddress-7</b> Speaker: <b>Dr. Prashant R. Waghmare</b> Department of Mechanical Engineering, University of Alberta <b>Topic: Intricacies of surface tension/energy measurements: academic &amp; industrial perspectives</b> <b>Session Moderator: Dr. R S Rana, Associate Professor, MANIT, Bhopal</b>	09:30a.m – 10:30a.m
<b>KeyNote Address-8</b> Speaker: <b>PROF ESTHER T. AKINLABI</b> Department of Mechanical Engineering Science, Director of the PAULESI, Ibadan, Nigeria <b>Topic:Trends and advances in Additive Manufacturing</b> <b>Session Moderator: Dr. R S Rana, Associate Professor, MANIT, Bhopal</b>	10:30a.m – 11:30a.m
<b>KeyNote Address-9</b> Speaker: <b>Dr.Ved Prakash</b> Stamping Feasibility Analysis Engineer at Ford Motor Company <b>Topic: Numerical and Experimental Investigations in Sheet Metal Forming</b> <b>Session Moderator: Dr. Nitin Ramesh Kotkunde, Assistant Professor, BITS, Hyderabad</b>	11:30a.m – 12:30p.m
<b>Lunch Break</b>	12:30p.m – 01:30p.m
<b>ONLINE SESSION-5</b>	01:30p.m. – 04:00p.m

**Day 3**  
**April 24, 2022**

**Valedictory Function**

**05:00p.m - 05:30p.m**

<b>Programme</b>	<b>Time</b>
<b>Introducing guest</b>	5:00 p.m
<b>Address by Dr. Jandhyala N Murthy, Director, GRIET Hyderabad</b>	5:10 p.m

Address by Prof Anand Pare, Professor, IIT Indore  
Announcing Best paper awards in 6 categories

5:20 p.m

## Session Schedule

### ONLINE SESSION-1

**Date: 22 April 2022**

**Time: 01:30p.m–04:00p.m**

Session No.	Zoom ID	Session-chair	Topic	S. No form the Final Paper List
1	Meeting ID: 852 7747 4965 Pwd: 597706  (BP)	Chair 1: Dr.Chethan S, ATME College of Engineering, Mysuru.  Chair 2: Dr A.Anitha Lakshmi, GRIET, Hyderabad	AMPT session	2, 3, 4,5,6,7,8,9,10,11,12, 13,14,15
2	Meeting ID: 632 998 1700 Pwd: 1234  (MKG)	Chair 1: Dr. Pankaj Sharma, Rajasthan Technical University Kota Rajasthan.  Chair 2: Dr. Swadesh Kumar Singh, GRIET, Hyderabad.	AMPT session	16,17,18,19,20,21,22, 23,24,25,26,27,28,29, 30
3	Meeting ID: 801 954 8364 Pwd: 1234  (SKS/NS)	Chair 1: Dr. Vishwas Mahesh, Siddaganga Institute of Technology.  Chair 2: Dr Das, KIIT DEEMED to be university.	iMeche Part-E session	1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15
4	Meeting ID: 4604151298 Pwd: 1234  (KKS)	Chair 1: Eshan Sainath Agrawal, Assistant professor.  Chair 2: Dr. Shivraj Narayan Yeole, VNR Vignana Jyothi Institute of Engineering and Technology Hyderabad.	iMeche Part-E & IJEMS session	16,17,18,19,20 & 1,2,3,4,5,6,7,8,9,10

5	Meeting ID: 755 137 6275 Pwd: 123456  (RS)	Chair 1: Dr. U.S.Jyothi, GRIET, Hyderabad.  Chair 2: Dr. Tanya B, GRIET, Hyderabad.	IJEMS & MATPR session	11,12,13,14,15,16,17, 18,19,20 22,73,124,173,184,18 7, 9, 44,51,55, 145
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## ONLINE SESSION-2

**Date: 22 April 2022**

**Time: 05:00p.m–07:30p.m**

Session No.	Zoom ID	Session chair	Topic	S. No form the Final Paper List
6	Meeting ID: 852 7747 4965 Pwd: 597706  (BP)	Chair 1: Dr. Mohammad Asjad, Jamia Millia Islamia.  Chair 2: Dr. Atul Kumar, NIT KKR.	AIP session	33,39,42,44,46,48,49 ,50,51,52, 53,54,55, 56,57,69,71,129, 139,140
7	Meeting ID: 632 998 1700 Pwd: 1234  (MKG)	Chair 1: Dr.S.Dhanabalan, M.Kumarasamy College of Engineering, Karur.  Chair 2: Dr. Amlana Panda, KIIT Deemed to be University, Bhubaneswar.	AIP session	36,47, 59,61,63,73,124,128, 131,132,133,134,135 ,137,138,,141,142
8	Meeting ID: 801 954 8364 Pwd: 1234  (SKS/NS)	Chair 1: Prof Saleem Anwar Khan, ZHCET, Aligarh Muslim University, Aligarh.  Chair 2: Dr. N. Sateesh, Professor (ME), GRIET, Hyderabad.	MATPR session	1,2,3,4,5,6,8,10,11, 12,13,14,15,16
9	Meeting ID: 460 415 1298 Pwd: 1234  (KKS)	Chair 1: Mr. Afsar Husain, Community College Aligarh Muslim University.	MATPR session	17,18,19, 20, 21,23,24,25,26,27,28 ,29,30,31,32,33



		Chair 2: Dr. Kuldeep K. Saxena, GLA University, Mathura.		
10	Meeting ID: 755 1376275 Pwd: 123456  (RS)	Chair 1: Dr. Tarang R. Shinde, Associate Professor in Mechanical Engineering.  Chair 2: Dr. Ram Subbiah, GRIET, Hyderabad.	MATPR session	34,35,36,37,38,39,40 ,41,42,43,46,47, 48,49

### ONLINE SESSION-3

**Date: 23 April 2022**

**Time: 02:00p.m – 04:30p.m**

Session No.	Zoom ID	Session chair	Topic	S. No form the Final Paper List
11	Meeting ID: 852 7747 4965 Pwd: 597706  (BP)	Chair 1: Mohammad Mohsin Khan, AMU, Aligarh.  Chair 2: Prof. Abid Ali Khan, Aligarh Muslim University.	AMPT & MATPR session	1, 50,52,53,54,56,57,58, 59,60,61,62,63,64
12	Meeting ID: 632 998 1700 Pwd: 1234  (MKG)	Chair 1: Atishey Mittal, NIT kurukshetra.  Chair 2: Dr. Mohd Mukhtar Alam, Vivekananda Global University, Jaipur.	MATPR session	65,66, 67,68,69,70,71,72,74, 75,76,77,78,79,80,81
13	Meeting ID: 801 954 8364 Pwd: 1234  (SKS/NS)	Chair 1: Dr. Md Israr Equbal, Aligarh Muslim University, Aligarh.  Chair 2: Chandrakant Chaturvedi, Government polytechnic uttarwar.	MATPR session	82,83,84,85,86,87,88, 89,90,91,92,93,94,95, 96,97

14	Meeting ID: 4604151298 Pwd: 1234  (KKS)	Chair 1: MIRZA SHARIQ BEG, Assistant Professor.  Chair 2: Dr. Afzal Husain, Sultan Qaboos University.	MATPR session	98,99,100,101,102, 103,104,105,106,107, 108,109,110,111,112, 113.
15	Meeting ID: 755 137 6275 Pwd: 123456  (RS)	Chair 1: Dr. Mayur A. Makhesana, Institute of Technology, Nirma University.  Chair 2: Ayna Zahoor, NIT Srinagar.	MATPR session	114,115,116,117,118, 119,120,121,122,123, 125,126,127,128,129, 130.

#### ONLINE SESSION-4

**Date: 23 April 2022**

**Time: 05:00p.m– 07:30p.m**

Session No.	Zoom ID	Session chair	Topic	S. No form the Final Paper List
16	Meeting ID: 852 7747 4965 Pwd: 597706  (BP)	Chair 1: Virang Shukla, Sarvepalli Radhakrishnan University.  Chair 2: Dr Amit Sharma, Jaypee University of Engineering and Technology, Guna (MP).	MATPR session	131,132,133,134,135 ,136,137,138,139,14 0,141,142,143,144, 146.
17	Meeting ID: 632 998 1700 Pwd: 1234  (MKG)	Chair 1: Dr.K.Manikandan Professor, M.A.M college of Engineering, Trichy.  Chair 2: Arun Kumar Singh Gangwar, AICTE.	MATPR session	147,148,149,150,151 ,152,153,154,155,15 6,,158,159,160, 161,162.
18	Meeting ID: 801 954 8364 Pwd: 1234  (SKS/NS)	Chair 1: Dr Kishan Pal Singh, Mangalayatan University Aligarh.  Chair 2: Prof. Mohammed Ali, Aligarh Muslim University Aligarh.	MATPR session	163,164,165,166,167 ,168,169,170,171,17 2,174,175,176,177, 178,179.282

19	Meeting ID: 4604151298 Pwd: 1234  (KKS)	Chair 1: Abdul Faheem, University Polytechnic, Aligarh Muslim University.  Chair 2: Dr. Kuldeep Kumar Saxena, GLA University, Mathura.	MATPR session	180,181,182,183,185 ,186,188,189, 190,191,192,193,195 ,196,197,275,276, 277,278,279,280,281
20	Meeting ID: 755 137 6275 Pwd: 123456  (RS)	Chair 1: Dr. M Venkata Ramana, VNR Vignana Jyothi Institute of Engineering and Technology Hyderabad.  Chair 2: Dr. Sunil S, Sri Venkateswara College of Engineering.	MATPR session	198,199,200,201,202 ,203,204, 205,206,207,208,209 ,210,211,212,213. 272,273,274

### ONLINE SESSION-5

**Date: 24 April 2022**

**Time: 01:30p.m– 04:00p.m**

Session No.	Zoom ID	Session chair	Topic	S. No form the Final Paper List
21	Meeting ID: 852 7747 4965 Pwd: 597706  (BP)	Chair 1: Dr. Phaneendra Babu Bobba, GRIET, Hyderabad  Chair 2: Mulugundam Siva Surya, GITAM University.	MATPR session	157,194,214,215,216 ,217,218,219,220,221, 222,223,224,225,226, 227,228,229,256, 257,269
22	Meeting ID: 632 998 1700 Pwd: 1234  (MKG)	Chair 1: Dr. Kurra Suresh, BITSPilani, Hyderabad campus  Chair 2: Dr. Trupti Ranjan Mahapatra, VSSUT, Burla, Odisha	MATPR session	230,231,232,233,234 ,235,236,237,238,239, 246,248,262,263,267, 268,270

23	Meeting ID: 801 954 8364 Pwd: 1234  (SKS/NS)	Chair 1: Dr.Nitin Kotkunde, BITs Pilani, Hyderabad campus  Chair 2: Dr.Chethan S, ATME College of Engineering, Mysuru.	MATPR session	240,241,242,243,244 ,245,247,249,250,25 1,252,253,254,255,2 58.259,260.261,264, 265,266,271
24	Meeting ID: 4604151298 Pwd: 1234  (KKS)	Chair 1: Dr. Bijay B Nayak, KIIT University, Bhubaneswar  Chair 2: Dr. N Rajesh, SV College of Engineering, Tirupati	IJIMeD session	1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15
25	Meeting ID: 755 137 6275 Pwd: 123456  (RS)	Chair 1: Dr. Akhilendra Singh, Indian Institute of Technology Patna Indian Institute of Technology, Patna.  Chair 2: Dr. Rupinder Singh, National Institute of Technical Teachers Training and Research, Chandigarh	IJIMeD session & MATPR session	16,17,18,19,20,21,22 ,23,24 283,284,285,286,287 ,288,289

### OFFLINE SESSION-1

**Date: 22 April 2022**

**Time: 01:30p.m–04:00p.m**

Session No.	Room No	Session chair	Topic	S. No form the Final Paper List
1	4301	Chair 1: Dr. G.Karuna, GRIET, Hyderabad  Chair 2: Dr. G Ramesh, GRIET, Hyderabad	AIP session	1,2,3,4,5,6,7,8,9,12,13 ,14,15,16,17
2	4302	Chair 1: Dr. S. Govinda Rao, GRIET, Hyderabad  Chair 2: Dr. K Kavitha, GRIET, Hyderabad	AIP session	18,19,20,22,23,24,25, 26,27,28,29,30,31,32, 34

3	4304	Chair 1: Dr. K. Prasanna Lakshmi, GRIET, Hyderabad Chair 2: Dr. Y.Srilalitha, GRIET, Hyderabad	AIP session	35,37,38,40,41,43,45,60,62,64,65,66,67,68,70
4	4317	Chair 1: Dr. N.V.Ganapathi Raju, GRIET, Hyderabad Chair 2: Dr. C.Lavanya, GRIET, Hyderabad	AIP session	72,74,75,76,77,78,79,80,82,83,84,85,86,87,88
5	4322	Chair 1: Dr. Y.J. Nagendra Kumar, GRIET, Hyderabad Chair 2: Dr. V.Srinivasa Reddy, GRIET, Hyderabad	AIP session	89,90,91,92,93,94,95,96,97,98,99,100,101,102,103

### OFFLINE SESSION-2

**Date: 23 April 2022**

**Time: 02:00p.m–04:30p.m**

Session No.	Room No.	Session-chair	Topic	S. No form the Final Paper List
1	4301	Chair 1: Dr. K Madhavi, GRIET, Hyderabad Chair 2: Dr P Chandrasekhar Reddy, GRIET, Hyderabad	AIP session	104,105,106,107,108,109,110,111,112,113,114,115
2	4302	Chair 1: Dr B. Sankara Babu, GRIET, Hyderabad Chair 2: Dr.V. Susmitha, GRIET, Hyderabad	AIP session	116,118,119,120,121,122,123,125,126,127