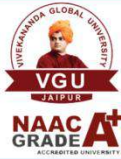


## **A Detail Report of RTESD 2025**

**4<sup>th</sup> International Conference on  
Recent Trends in Environment & Sustainable Development**  
January 27-29, 2025, Jaipur INDIA

**Organized by: VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR**



### **Content:**

- **Session wise report**
- **Detail of Registered Participants in RTESD 2025**
- **Detail of Oral and Poster Presentations**
- **Detail of Key Note Speaker**
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- **Brochure of RTESD 2025**
- **Detail of Final Scientific Schedule of RTESD 2025**
- **Abstract Book of RTESD 2025**
- **Detail of Conference publication in Journals and Proceedings**
- **Scansion letter of ANRF Grant**

# **4<sup>th</sup> International Conference on Recent Trends in Environment and Sustainable Development (RTESD-2025)**

*Organized by: Department of Sciences, VGU Jaipur*

**27<sup>th</sup> to 29<sup>th</sup> January 2025**

## **1. Overview**

The 4th edition of the International Conference on *Recent Trends in Environment and Sustainable Development (RTESD-2025)* was successfully conducted at Vivekananda Global University (VGU), Jaipur, from 27-29 January 2025. Hosted by the Department of Sciences, this prestigious event brought together over 190 participants, including scientists, academicians, researchers, policymakers, and industry professionals from India and abroad.

The conference aimed to promote interdisciplinary dialogue on pressing environmental challenges and to explore sustainable solutions for a resilient future. It served as a platform for exchanging ideas, innovations, and recent research outcomes across a wide spectrum of environmental and sustainability topics.



Group Photo of RTESD 2025 Participants

## **2. Conference Objectives**

- To address global environmental issues like climate change, biodiversity loss, and pollution.
- To facilitate knowledge exchange through keynote and plenary talks.
- To provide a platform for young researchers to present their findings.
- To foster collaboration across academic, governmental, and industrial sectors.

### 3. Key Statistics

Particular	Count	
Total Abstracts Received	250	
Registered Participants	191	(Enclosure 1)
Oral Presentations	53	(Enclosure 2)
Poster Presentations	138	(Enclosure 2)
Keynote Speakers	1	(Enclosure 3)
Plenary/Invited Speakers	17	(Enclosure 4)

### 4. Conference Themes

The technical sessions and presentations spanned across diverse themes including:

- Renewable Energy and Resource Management
- Climate Action and SDGs
- Eco-friendly and Sustainable Materials
- Nanotechnology in Environmental Applications
- Green Chemistry & Catalysis
- Biodiversity & Ecosystem Restoration
- Water and Waste Management
- IoT and AI in Agriculture and Environment
- Mathematical Modelling for Environmental Systems

#### Day 1 – 27<sup>th</sup> January 2025 (Inauguration and Keynote Sessions)

The inaugural day of RTESD-2025 commenced with a grand opening ceremony held at *Vivekananda Sabhagar*, graced by the esteemed dignitaries of Vivekananda Global University. The event was inaugurated by **Dr. Lalit K. Panwar (IAS Rtd.)**, Chairperson, and **Er. Onkar Bagaria**, CEO, who addressed the audience on the need for sustainable development in today's global scenario. **Dr. N.D. Mathur**, President of VGU, extended a warm welcome to all national and international delegates, while **Dr. D.V.S. Bhagavanulu**, Pro-President (Research), emphasized the institution's vision for environmental responsibility and innovation.



Inaugural Session of RTESD-2025



Opening ceremony of Abstract Book

The **keynote address** was delivered by **Prof. Rajeev Ahuja**, Director, IIT Ropar, who presented his groundbreaking work on computational material science for energy applications. His session highlighted the role of relativistic quantum mechanics in explaining battery chemistry, drawing immense appreciation from scholars across disciplines. The first plenary session followed, featuring **Prof. Prafulla K. Jha** from MSU Baroda, who discussed advanced carbon-based materials for hydrogen storage. The afternoon session included plenary talks by **Dr. Fouran Singh** from IUAC Delhi on ion beam modifications in energy materials and **Dr. P.K. Kulriya** (JNU) on irradiation-induced phase changes in nuclear ceramics.



**Keynote address** was delivered by **Prof. Rajeev Ahuja**, Director, IIT Ropar

Parallel **oral sessions** were conducted in multiple halls with plenary talk delivered by Prof. Fouran Singh (IUAC, New Delhi), Prof. P. K. Jha (M. S. University Vadodara), Prof. Pawan Kumar Kulriya (JNU, New Delhi) and Prof. Ambesh Dixit (IIT Jodhpur) under themes such as *Sustainable Materials and Nanotechnology*, *Climate Action*, and *Mathematical Modelling in Environmental Systems*, with active participation from over

50 presenters. The evening concluded with an open interaction session and a cultural program showcasing Rajasthani heritage.



Prof. P. K. Jha



Prof. Fouran Singh



Prof. Pawan Kulriya

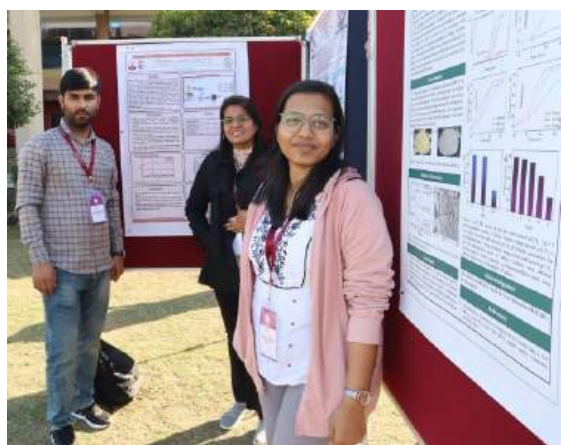
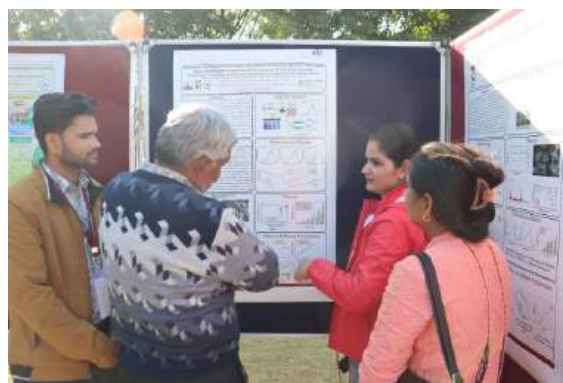
## **Day 2 – 28<sup>th</sup> January 2025 (Plenary & Invited Sessions, Poster Presentations)**

Day two began with a series of high-impact **plenary talks** starting with **Dr. Pankaj Poddar** (NCL Pune) who explored biomilling and nanoscale material synthesis using microbial pathways. **Prof. Padmanabhan Predeep** from Mahatma Gandhi University discussed the status, hopes, and challenges of organic and hybrid solar cells, focusing on perovskite photovoltaic research. This was followed by **Dr. Rajesh Kumar** (CURAJ) who intricately linked climate action to SDGs and emphasized the role of academia in policy integration.

The day also hosted a number of **invited speaker sessions**. Dr. Jai Prakash (NIT Hamirpur) delivered insights on photocatalytic nanomaterials, while Dr. Indra Sulania (IUAC, New Delhi) shared research on 3D catalytic electrodes for water purification. A special session on biomedical environmental interfaces featured works on electrochemical biosensors for cancer biomarkers, with presentations by scholars from DCRUST Murthal.

Simultaneously, **poster presentations** were conducted in designated exhibition zones. With over **130 posters displayed**, topics ranged from *green manufacturing*, *Agri-IoT*, *AI in agriculture*, to *renewable energy simulations*. Delegates from varied disciplines interacted with authors, and evaluators Dr. N. S. Rawat (BARC Mumbai) and Dr. Pankaj Poddar (NCL Pune) chaired the session and selected **best posters** under student and faculty categories for award consideration.

In the second half, a technical session on **mathematical simulation and modelling** included a talk by **Dr. Jai Prakash Tripathi** (CURAJ) on fear-induced group defense in predator-prey systems. Another notable plenary was by Dr. Rakesh Meena (JNU) on fault-tolerant machining systems using queuing theory and optimal control, bridging industrial engineering with environmental sustainability. The day ended with a guided campus tour and networking dinner hosted by the organizing committee.



### Poster presentations designated exhibition zones

#### Day 3 – 29<sup>th</sup> January 2025 (Technical Panels, Valedictory and Awards)

The final day of RTESD-2025 was packed with specialized technical panels and collaborative discussions. It began with oral sessions on *Sustainable Agriculture*, *Green Chemistry*, and *Water Treatment Technologies*. Research on sustainable composites from horticulture waste, real-time crop disease detection via AI, and graphene oxide for self-cleaning adsorbents were presented by faculty and students from institutions such as VGU, MNIT Jaipur, and NIT Hamirpur.

A thematic panel on *Traditional Knowledge and Sustainability* featured presentations on *climate-smart agriculture based on ancient Indian techniques*, and on *green economy strategies in the manufacturing sector*. Dr. Deepali Singh and Ms. Sumedha Bhatnagar shared their work on policy frameworks supporting the UN SDGs. Additionally, presentations on *urban heat island effects in Jaipur* and *sustainable textile industry practices* received significant attention for their local applicability and policy relevance.



Award ceremony and valedictory function

In the **valedictory session**, dignitaries from VGU commended the organizing team, for seamless execution. Awards for **Best Oral Presentation**, **Best Poster**, and **Young Researcher** were distributed. The event concluded with closing remarks by **Dr. Subodh Srivastava (Conference Chair)**, reaffirming VGU's commitment to sustainability research and global academic partnerships.

**Best Presentation Awards:**

SN	Name	University	Title
1	MS. GUNJAN SINGH	Dayalbagh Educational Institute Agra	Thermal Pretreatment of Water Hyacinth: a sustainable route for bioethanol and biomethanol Production
2	Ms. Sweety Dahiya	Deenabandhu Chhotu Ram university of science and technology	Psidium guajava L. fabricated ZnWO <sub>4</sub> NPs: Eco-Smart Photocatalysts for Dye and Antibiotic Degradation
3	MR. ANIRBAN KUMAR	Vivekananda Global University, Jaipur	Detection of Crop Diseases Using Machine Learning and Deep Learning Techniques
4	MRS. AKANKSHA SRIVASTAVA	University of Lucknow, Lucknow	A Comprehensive characterization study of Sn doped V <sub>2</sub> O <sub>5</sub> nanomaterials
5	MRS. MANISHA	Central University of Haryana	DEVELOPMENT OF Nb <sub>2</sub> O <sub>5</sub> /g-C <sub>3</sub> N <sub>4</sub> /PPy (NGP) TERNARY COMPOSITE FOR HIGH PERFORMANCE SUPERCAPACITOR ELECTRODE
6	MS. JYOTI RANI	Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Haryana)	Development of Electrochemical Immunosensor based on Nanomaterial(s) for the Detection of Pancreatic Cancer Biomarker(s)
7	MR. DEEPAK	Vivekananda Global University, Jaipur	Mathematical Modeling and Simulation of Greenhouse Gas Emission Scenarios Using Differential Equations: Analyzing Policy Impacts on Atmospheric CO <sub>2</sub> Levels
8	MR. SAHIL THAKUR	NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR, HAMIRPUR	SURFACE-ENGINEERED GRAPHENE OXIDE AS A SELF-CLEANING ADSORBENT AND VISIBLE-LIGHT PHOTOCATALYST FOR SUSTAINABLE WATER TREATMENT
9	Ms. Poonam Kumari	Pt Deen Dayal Upadhyay Shekhawati university, Sikar	Removal of Textile dye from waste water by magnetic graphene based hybrid nanocomposites
10	MS. KARISHMA JAIN	MANIPAL UNIVERSITY	QUANTITATIVE ANALYSIS OF SULFUR/MWCNT NANOCOMPOSITES USING

		JAIPUR	RIETVELD METHOD AND THEIR PHOTOCATALYTIC ACTIVITY
11	Dr. Yogita Jain	Dayalbagh Educational Institute Agra	Enhancement of Biohydrogen Production From Benincasa Hispida Waste Through Thermal Pretreatment
12	Ms. Ritika Goswami	Amity University Rajasthan	Balancing competition, data privacy, and biodiversity conservation: legal challenges in gun-jumping provisions and ecosystem restoration
13	MRS. DEEPSHIKHA SHEKHAWAT	IIS (Deemed to be University), Jaipur	Diabetes and Microplastics: A Growing Concern for Metabolic Health
14	MS. BHARTI SHARMA	Vivekananda Global University, Jaipur	UAV Detection and Identification: A Comparative Review of Current Methods and Future Directions
15	MRS. JYOTI ARYA	Banasthali Vidyapith, Banasthali-304022, Rajasthan	Tailoring the optical properties of PVA/CeO <sub>2</sub> polymer nanocomposites by graphene oxide nanofiller

## **Conclusion**

Across three intellectually vibrant days, RTESD-2025 succeeded in creating a multidisciplinary platform to address environmental challenges. With keynote and plenary lectures, 53 oral talks, and 138 posters, the event facilitated meaningful academic exchange, collaboration, and future publication opportunities. Participants departed with renewed zeal to contribute to sustainability and environmental innovation in their respective fields.

<b>Detail of Registered Participants in RTESD 2025</b>		
<b>S. No.</b>	<b>Name of Participant</b>	<b>Institute Affiliation/Organization</b>
1	Mrs. Anju Choudhary	Vivekananda Global University, Jaipur
2	Ms. Saloni Bahl	Sardar Patel University of Police, Security and Criminal Justice, Jodhpur
3	Mr. Sandeep Dhaka	Vivekananda Global University, Jaipur
4	Mr. SACHIN SAINI	Vivekananda Global University, Jaipur
5	Mrs. Deepshikha Shekhawat	IIS (Deemed to be University)
6	Ms. Iman Sabah	Vivekananda Global University, Jaipur
7	Mr. Shubham Daharwal	Vivekananda Global University, Jaipur
8	Mrs. Shraddha Kadam	Defence Institute of Advance Technology, Pune.
9	Mr. SOULESH P	Vivekananda Global University, Jaipur
10	Mr. DINESH KUMAR	Vivekananda Global University, Jaipur
11	Mrs. Sumitra devi Yadav	Vivekananda Global University, Jaipur
12	Ms. Charu Sharma	Vivekananda Global University, Jaipur
13	Mrs. POOJA YADAV	Vivekananda Global University, Jaipur
14	Ms. Gayatri Yadav	Vivekananda Global University, Jaipur
15	Dr. D.P.S. RATHORE	Atomic Minerals Directorate for Exploration and Research, Department of Atomic Energy, Jaipur, Rajasthan, India
16	Ms. Pinki Meena	Vivekananda Global University, Jaipur
17	Mrs. Priyanka Shrivastava	Vivekananda Global University, Jaipur
18	Ms. Jyoti Singh	Vivekananda Global University, Jaipur
19	Mrs. Priyanka Joshi	Vivekananda Global University, Jaipur
20	Ms. Ruchika Yadav	Vivekananda Global University, Jaipur
21	Dr. Kalpana Munjal	Vivekananda Global University, Jaipur
22	Mrs. MAMTA .	Vivekananda Global University, Jaipur
23	Ms. Jyoti Rani	Deenbandhu Chhotu Ram University Of Science And Technology, Murthal (Haryana)
24	Mr. Deepak Sharma	Engineering College Bikaner
25	Mr. AMITAVA ROY	Manav Rachna International Institute of Research and Studies (MRIIRS)
26	Dr. Pura Ram	University of Rajasthan, Jaipur
27	Mrs. Shweta Vashisth	Deenbandhu Chhotu Ram University Of Science And Technology, Murthal (Haryana)
28	Mr. Vasu Puligundla	VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH, GUNTUR
29	Ms. Amrita Kanwar	Vivekananda Global University, Jaipur
30	Mr. PRASHANT MEENA	Vivekananda Global University, Jaipur
31	Ms. Maina Choudhary	Vivekananda Global University, Jaipur
32	Mr. SAROOK KHAN	Vivekananda Global University, Jaipur
33	Mr. ASHISH KUMAR	Manipal University, Jaipur
34	Ms. Karishma Jain	Manipal University, Jaipur
35	Mr. Naveen Kumar Yadav	Vivekananda Global University, Jaipur
36	Mr. Rahul Bishnoi	The National Law Institute University, Bhopal,
37	Mr. SHANKAR LAL	Vivekananda Global University, Jaipur
38	Mr. Vivek Kumar Yadav	Vivekananda Global University, Jaipur
39	Dr. Boola Choudhary	Vivekananda Global University, Jaipur
40	Mr. Vijendra Kumar	Vivekananda Global University, Jaipur
41	Ms. Deepika Maan	Manipal University, Jaipur
42	Ms. Jiya Jaiswal	Vivekananda Global University, Jaipur
43	Dr. Anu Malhotra	S.S Jain Subodh P.G College, Jaipur
44	Mr. Suresh Meena	Vivekananda Global University, Jaipur
45	Ms. Palak Gupta	Vivekananda Global University, Jaipur
46	Mr. Ved prakash Meena	Vivekananda Global University, Jaipur
47	Ms. Dharmishtha Tolambia	DEPARTMENT OF PHYSICS MOHANLAL SUKHADIA UNIVERSITY UDAIPUR
48	Ms. Neha Hooda	Deenbandhu Chhotu Ram University Of Science And Technology, Murthal (Haryana)
49	Ms. Pooja Rahar	Deenbandhu Chhotu Ram University Of Science And Technology, Murthal (Haryana)
50	Mrs. Chhaya Goyal	Vivekananda Global University, Jaipur
51	Ms. Samiksha Antil	Deenbandhu Chhotu Ram University Of Science And Technology, Murthal (Haryana)
52	Mr. Daksh Kumar	Vivekananda Global University, Jaipur
53	Mr. PAVAN KUMARMEENA	Vivekananda Global University, Jaipur
54	Mr. RAHUL MISHRA	Vivekananda Global University, Jaipur
55	Mr. RAJENDRA KUMAR MEENA	Vivekananda Global University, Jaipur
56	Ms. Neha Malviya	Vivekananda Global University, Jaipur
57	Ms. Payal Pancholi	Vivekananda Global University, Jaipur
58	Mr. Dilip Singh	Vivekananda Global University, Jaipur
59	Mr. SAHIL THAKUR	NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR, HAMIRPUR
60	Mr. Pradeep Kumar	University of Rajasthan, Jaipur
61	Mr. Saurabh Gupta	Vivekananda Global University, Jaipur
62	Ms. Archana Sahay Saini	Vivekananda Global University, Jaipur


63	Mr. Deepak Kumar	Vivekananda Global University, Jaipur
64	Mr. AMIT SHINDE	Vivekananda Global University, Jaipur
65	Mr. Manish Kumar	Vivekananda Global University, Jaipur
66	Mrs. Kusum Mann	Vivekananda Global University, Jaipur
67	Ms. Deepa Batra	Malaviya National Institute of Technology, Jaipur
68	Mr. Kiran Bhagwat	Vivekananda Global University, Jaipur
69	Mr. Abhishek Kumar	Vivekananda Global University, Jaipur
70	Dr. Vandana Palsaniya	Vivekananda Global University, Jaipur
71	Mrs. Sangeeta Lohiya	Vivekananda Global University, Jaipur
72	Ms. Neha Gupta	Vivekananda Global University, Jaipur
73	Ms. Anima Sharma	Vivekananda Global University, Jaipur
74	Mrs. Anchal Prajapat	Vivekananda Global University, Jaipur
75	Mr. Popat Gunjal	Vivekananda Global University, Jaipur
76	Mrs. Amulya Nigam	Banasthali Vidyapith, Jaipur, Rajasthan
77	Dr. Priya Modi	Vivekananda Global University, Jaipur
78	Mr. Hitesh Rajput	Uka Tarsadia University, UTU, Bardoli
79	Mrs. Akanksha Srivastava	University of Lucknow, Lucknow
80	Mrs. Ambika Vishwakarma	Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur
81	Mr. KUNAL SHARMA	Vivekananda Global University, Jaipur
82	Mr. Krishan Kumar Dhanka	Vivekananda Global University, Jaipur
83	Dr. Ravi Kant Pareek	Vivekananda Global University, Jaipur
84	Dr. Ankit Kumar Vishwakarma	Department of Physics, Rajendra College, Chapra
85	Mr. Vinod Kumar	Vivekananda Global University, Jaipur
86	Mr. Narendra Kumar	Vivekananda Global University, Jaipur
87	Mr. DHARA SINGH MEENA	Vivekananda Global University, Jaipur
88	Mr. RAVINDER KUMAR	Vivekananda Global University, Jaipur
89	Dr. MUKESH KUMAR	Vivekananda Global University, Jaipur
90	Ms. Sheetal Charan	Vivekananda Global University, Jaipur
91	Ms. Mamta Jha	University of Rajasthan, Jaipur
92	Mr. Ganesh Kantak	Vivekananda Global University, Jaipur
93	Ms. Isha Dhanda	Vivekananda Global University, Jaipur
94	Ms. Sapna Rathore Rathore	Vivekananda Global University, Jaipur
95	Dr. Garima Chauhan	Vivekananda Global University, Jaipur
96	Ms. Bhoomika Badlani	Vivekananda Global University, Jaipur
97	Mr. Rahul Kumar Meena	Vivekananda Global University, Jaipur
98	Mr. Akshay Verma	Shoolini University of Biotechnology and Management Sciences
99	Mrs. Jyoti Arya	Banasthali Vidyapith, Jaipur, Rajasthan
100	Dr. Neetu Sharma	Poornima Institute of Engineering and Technology, Jaipur
101	Mrs. Twinkle Rastogi	Vivekananda Global University, Jaipur
102	Prof. Kumud Kant Awasthi	Vivekananda Global University, Jaipur
103	Ms. Nidhi Singh	BIT Mesra Jaipur off Campus
104	Dr. Sandeep Kumar Jain	Vivekananda Global University, Jaipur
105	Prof. Menka Bhasin	Vivekananda Global University, Jaipur
106	Mr. Raghuvver Singh	Vivekananda Global University, Jaipur
107	Dr. SVH Nagendra	Vivekananda Global University, Jaipur
108	Mr. Suseel Vaisakh C R	School of Mechanical Engineering, Lovely Professional University, Phagwara
109	Dr. Mahesh Kumar Jangid	Vivekananda Global University, Jaipur
110	Mr. Ravindra Pancharia	Vivekananda Global University, Jaipur
111	Mrs. Sunita Kirdoliya	Vivekananda Global University, Jaipur
112	Prof. DEEPALI SINGH	Vivekananda Global University, Jaipur
113	Mr. Rupam Sharma	NIT Hamirpur
114	Ms. Gunjan Singh	Dayalbagh Educational Institute, Dayalbagh, Agra
115	Dr. Harpinder Singh Sandhu	Lovely Professional University, Phagwara
116	Mr. Prabhat Krishna Sharma	Banasthali Vidyapith, Jaipur, Rajasthan
117	Ms. Neetu	Vivekananda Global University, Jaipur
118	Ms. BHARTI SHARMA	Vivekananda Global University, Jaipur
119	Mr. Sunil Kumar Dewanda	Banasthali Vidyapith, Jaipur, Rajasthan
120	Dr. Jai Inder Preet Singh	School of Mechanical Engineering, Lovely Professional University, Phagwara
121	Dr. Piyush Gulati	Lovely Professional University, Phagwara
122	Mr. Kuldeep Singh yadav	Vivekananda Global University, Jaipur
123	Mr. GAURAV SHARMA	RAJENDRA COLLEGE, JAI PRAKASH UNIVERSITY, CHAPRA, BIHAR, 841301
124	Mr. Vikram Kumar Raiger	Vivekananda Global University, Jaipur
125	Ms. Anisha Chaurasia	NIMS University, Jaipur, Rajasthan
126	Ms. Khushboo Sharma	Vivekananda Global University, Jaipur
127	Dr. Jai Prakash Mishra	Jaipur Engineering College and Research Centre, Jaipur, Rajasthan, India
128	Dr. Amit Parmar	Vivekananda Global University, Jaipur
129	Mr. Mukesh chand Khatumariya	Vivekananda Global University, Jaipur
130	Mr. Sujeet Kumar	Vivekananda Global University, Jaipur
131	Mr. PRAVESH KUMAR	Banasthali Vidyapith, Jaipur, Rajasthan
132	Mr. UMAKANT YADAV	Banasthali Vidyapith, Jaipur, Rajasthan
133	Mr. RITU YADAV	Banasthali Vidyapith, Jaipur, Rajasthan
134	Dr. MADHURI DUBEY	Dayalbagh Educational Institute, Dayalbagh, Agra

135	Ms. Chitra Banerjee	Vivekananda Global University, Jaipur
136	Mr. Shubham Chhagan Salve	Vivekananda Global University, Jaipur
137	Mr. Surendra Kumar Verma	University of Rajasthan, Jaipur
138	Mr. Pawan kumar Saini	Vivekananda Global University, Jaipur
139	Dr. Ashish Goyal	Manipal University, Jaipur
140	Mr. Saurabh Kumar	Dayalbagh Educational Institute, Dayalbagh, Agra
141	Mrs. Keerti Yadav	Vivekananda Global University, Jaipur
142	Ms. Manju Choudhary	University of Rajasthan, Jaipur
143	Mr. Rakesh Kumar Meena	Vivekananda Global University, Jaipur
144	Mr. Arun Kumar	Lovely Professional University, Phagwara
145	Mrs. Sreekala Unnikrishnan	Banasthali Vidyapith, Jaipur, Rajasthan
146	Dr. Meenakshi Pal	University of Rajasthan, Jaipur
147	Mr. Ravi Ranjan	Vivekananda Global University, Jaipur
148	Mrs. Nikita Choudhary	Vivekananda Global University, Jaipur
149	Dr. Muhammad Mubashshir	Vivekananda Global University, Jaipur
150	Dr. Aryan Raj	Vivekananda Global University, Jaipur
151	Dr. Sushree Devashrita	Vivekananda Global University, Jaipur
152	Dr. Ramandeep Gill	JECRC University, Jaipur 303905, India
153	Mr. Harpreet Singh	School of Mechanical Engineering, Lovely Professional University, Phagwara
154	Mr. Rahul Sharma	School of Mechanical Engineering, Lovely Professional University, Phagwara
155	Prof. Manpreet Singh	School of Mechanical Engineering, Lovely Professional University, Phagwara
156	Dr. Sumit Shoor	Lovely Professional University, Phagwara
157	Mr. Deepak .	Vivekananda Global University, Jaipur
158	Ms. PRIYANKA .	Vivekananda Global University, Jaipur
159	Dr. Murlī Manohar Gour	Vivekananda Global University, Jaipur
160	Prof. Partha Pratim Mitra	Vivekananda Global University, Jaipur
161	Mr. Anirban Kumar	Vivekananda Global University, Jaipur
162	Mrs. Manisha Manisha	Central University of Haryana, Mahendragarh
163	Dr. SWATI GUPTA	Vivekananda Global University, Jaipur
164	Ms. GLORIA JOSEPH	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, JAIPUR
165	Ms. Sweety Dahiya	Deenbandhu Chhotu Ram University Of Science And Technology, Murthal (Haryana)
166	Dr. Dolly Kumari	Shri Ramswaroop Memorial University, Lucknow-Deva Road, Barabanki, Uttar Pradesh, India-225003
167	Ms. SHIVANGI GIRI	Vivekananda Global University, Jaipur
168	Mr. Ankur Sihag	Vivekananda Global University, Jaipur
169	Mr. Vishnu Agrawal	Vivekananda Global University, Jaipur
170	Dr. Meena Tekriwal Tekriwal	Poornima Institute of Engineering and Technology, Jaipur
171	Ms. Dipti Joshi	Vivekananda Global University, Jaipur
172	Dr. Radhika Mohan Gupta	Manipal University, Jaipur
173	Dr. Govind Sharma	Vivekananda Global University, Jaipur
174	Dr. Lokesh Kumar Yadav	Vivekananda Global University, Jaipur
175	Mr. Satish Kumar Jangid	Vivekananda Global University, Jaipur
176	Prof. Pinky Lata	Vivekananda Global University, Jaipur
177	Dr. Shikha Patni	Seth RL Saharia Government PG College, Kaladera
178	Rajvant Kour	FPM Scholar, Jaipuria Institute of Management
179	Dr. Ravindra Kumar	Vivekananda Global University, Jaipur
180	Ms. Manisha	Vivekananda Global University, Jaipur
181	Dr. Deepak Kumar	Vivekananda Global University, Jaipur
182	Mr. Nishant Bhatnagar	Vivekananda Global University, Jaipur
183	Dr. VISHAL SHARMA	Vivekananda Global University, Jaipur
184	Prof. Umema Ahmed	Vivekananda Global University, Jaipur
185	Dr. SURBHI DHADDA	Vivekananda Global University, Jaipur
186	Dr. Mala Mathur	Vivekananda Global University, Jaipur
187	Dr. Sarita Choudhary	Vivekananda Global University, Jaipur
188	Dr. Shushma Sharma	Seth RL Saharia Government PG College, Kaladera
189	Chanchal Chaturvedi	
190	Ms. Meha Bhushan	Gujarat National Law University, Gandhinagar
191	Ms. Ritika Goswami	Amity University Rajasthan



### Detail of Oral and Poster Presentations

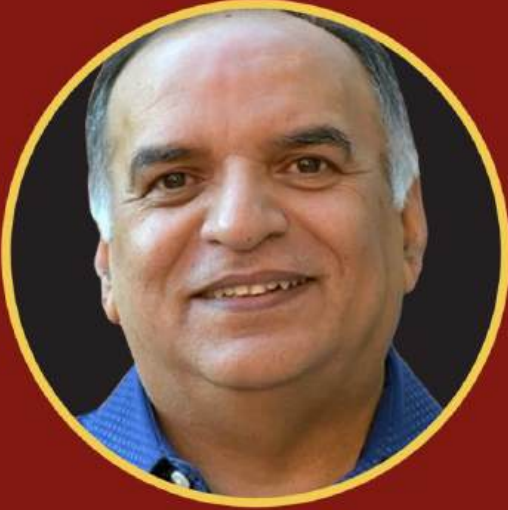
S.No.	Title	Author	Abstract Id
1	Surface-engineered graphene oxide as a self-cleaning adsorbent and visible-light photocatalyst for sustainable water treatment	Sahil Thakur	OP-1
2	Development of electrochemical immunosensor based on nanomaterial(s) for the detection of pancreatic cancer biomarker(s)	Jyoti Rani	OP-2
3	Quantitative analysis of sulfur/ mwcnt nanocomposites using rietveld method and their photocatalytic activity	Karishma Jain	OP-3
4	Piezoelectric nanoparticles-based biosensor for medical diagnostic	Neha Hooda	OP-4
5	Development of LED-Fluorimeter: A Versatile Portable Instrument for Measurement of Uranium in Diverse Matrices	D. P. S. Rathore	OP-5
6	Photocatalytic response of brewed tea leaves as biosorbent via methylene blue from dyeing industry	Dr Anu Malhotra	OP-6
7	Study of pvd/ go nanocomposite electrospinning fiber for the filtration application	Pravesh Kumar	OP-7
8	Optical and morphological properties of pb7, pcbm, pb7: Pcbm: Icha ternary blends for affordable, eco-friendly photovoltaics	Umakant Yadav	OP-8
9	Study of dye removal yield on sno2 /mwcnts nanocomposites	Ashish kumar	OP-9
10	Hybrid Renewable Energy System (HRES) design and optimization for Rural Boundary Conditions using HOMER Code	Vasu Puligundla	OP-10
11	Assessment of Barriers of Lean Six Sigma implementation in Ceramic Sector: An MCDM Technique based Study	Deepak Sharma	OP-11
12	Green synthesis iron Oxide nanoparticles Using Azadirachta Indica (Neem) Leaves Extract by control pH of solvent as Antioxidant Agent and Catalytic Densification	Hitesh Vithalsing Rajput	OP-12
13	Uav detection and identification: A comparative review of current methods and future directions	Bharti sharma	OP-13
14	Optimizing route calculation method for wireless sensor networks in wireless sensor networks	Ramandeep Gill	OP-14
15	Evaluating Sustainability in the Indian Textile Industry: A DEA-Based Efficiency Analysis	Deepa Batra	OP-15
16	Global sustainability through local voices : The role of language and culture in sustainable development'	Dr.Neetu Sharma	OP-16
17	Removal of textile dye from wastewater by magnetic graphene based hybrid nanocomposites	Poonam Kumari	OP-17
18	Development of nb2o5/g-c3n4/ppy (ngp) ternary composite for high performance supercapacitor electrode	Manisha	OP-18
19	Enhancing supercapacitor performance via potential window optimization of ppy/pva electrode materials	Manisha	OP-19
20	Synthesis, Characterization, and Physicochemical Analysis of Mn(II), Co(II) and Cu(II) Metal Complexes with Schiff's base ligand: Antimicrobial Potential, Molecular Docking, and In Silico Studies	Ms. Manisha Manisha	OP-20
21	Heavy metal pollution -Sources and hazards	Ms. Nidhi Singh	OP-21
22	Dosimetric Validation of 60Co Source Strength in HDR Brachytherapy Using TL and OSL Material	Mr. Prabhat Krishna Sharma	OP-22
23	Production of value added products from microwave assisted dairy wastewater pretreatment of rice straw	Dr. Dolly Kumari	OP-23
24	ZnO-Modified g C3N4: Electrochemical immunoassay for ultrasensitive detection of lung cancer biomarker CYFRA21-1	Pooja Rahar	OP-24
25	Electrochemical immunosensor based on La2O3/ g-C3N4 nanocomposite for the detection of liver cancer biomarker alpha-fetoprotein	Samiksha Antil	OP-25
26	The challenges and options towards optimal management of fresh water use in oil/gas upstream industry and safe disposal of effluents	Amitava Roy	OP-26
27	Development of uracil/ni2 composite-based photoanode for quasi-solid-state dye sensitized solar cells (dsscs)	Ritu Yadav	OP-27
28	Emerging techniques for tackling plastics pollution from landfill leachate	Vaibhav Sharma	OP-28
29	Techno-economic and environmental impact of green hydrogen production and refuelling stations in indian union territories	Raj Chawla	OP-29
30	Machine learning based approach for predicting ocean surface temperature in environmental monitoring applications	Dr. Jai Prakash Mishra	OP-30
31	Bridging the gender gap: India's path towards achieving sustainable development goals (sdg)	Dr. Minni Sharma	OP-31
32	Assessment of Climate Change Impacts on Streamflow Dynamics: A Case Study of the Kestora Basin	Dr. Madhuri Dubey	OP-32
33	Impact of Catechol and Borax on Bonding Strength and Water Resistance Properties of Sodium Silicate	Dr. Meenakshi Pal	OP-33
34	Mangano – Vanadium doped Zinc oxide electrode material for supercapacitor application	Dr. Paru Ram	OP-34
35	Legal Personality of AI Systems in Environmental Sustainability: Challenges and Opportunities in Green Technology and Climate Governance	Mr. Rahul Bishnoi	OP-35
36	Synthesis and Structural investigation of Lanthanum (III) complex with Schiff based containing Nitrogen and Oxygen donor heterocyclic ring.	Mrs. Anubika Vishwakarma	OP-36
37	Diabetes and Microplastics: A Growing Concern for Metabolic Health	Mrs. Deepshikha Shukhawat	OP-37
38	India's Policy Alignments with the Paris Agreement: Successes and Gaps	Ms. Anisha Chaurasia	OP-38
39	Impact of Catechol and Borax on Bonding Strength and Water Resistance Properties of Sodium Silicate	Ms. Manju Choudhary	OP-39
40	Exploring the Role of Green Infrastructure and Ecosystem Services in Combating Urban Poverty and Food Insecurity in India through Sustainable Development	Ms. Saloni Bahl	OP-40
41	A sustainable machining process to enhance the performance of turning process using nanofluids assisted minimum quantity lubrication	Dr. Ashish Gayal	OP-41
42	Acidic and alkaline green pretreatment of morac alba fallen leaves for production of value-added products	Mr. Saurabh Kumar	OP-42
43	A comprehensive characterization study of sa doped r2o5 nanomaterials	Mrs. Alanksha Srivastava	OP-43
44	"obligation for sustainable agriculture to ensure food security in india under changing climatic conditions"	Mrs. Ananya Nigam	OP-44
45	In silico exploration of xanthine aminocoumarone derivatives as promising dopamine d2 receptor antagonists: Adme, molecular docking, dtf calculations, and molecular dynamics	Ms. Anjali Rani	OP-45
46	Validation of a monte carlo-based treatment planning algorithm against a commercially available algorithm in radiotherapy	Mrs. Sreekala Unnikrishnan	OP-46
47	Analysis of structural and impedance properties of zinc ferrite and manganese ferrite prepared via coprecipitation	Nagur Eana	OP-47
48	Band gap opening of reduced graphene oxide infused with sulfur nanocomposites synthesized using mechanical solid state mixing route	Deepika Meen	OP-48
49	Exploring the role of green infrastructure and ecosystem services in combating urban poverty and food insecurity in india through sustainable development	Jyotirmoy Banerjee	OP-49
50	"Balancing competition, data privacy, and biodiversity conservation: Legal challenges in gun-jumping provisions and ecosystem restoration"	Ritika Goerwami	OP-50
51	Enhancement of biohydrogen production from beaucarota hitipida waste through thermal pretreatment	Yogita Jais	OP-51
52	Diversity of protozoan fauna and its abiotic features in a desert water body, western rajasthan	Mehrunissa	OP-52
53	Legal challenges in managing electronic waste in the age of artificial intelligence and internet of things: Gaps and sustainable solutions	Meha Banshan	OP-53

## Key Note Speaker



# KEY NOTE SPEAKER RTESD - 2025





**Prof. Rajeev Ahuja**  
Director of Indian Institute of Technology (IIT) Ropar

*Prof. Rajeev Ahuja is a professor of computational Materials science at Director of Indian Institute of Technology (IIT) Ropar. Currently, he is serving as the Director of Indian Institute of Technology (IIT) Ropar, India. He was also holding the additional charge of director of IIT Guwahati, India from Nov. 2023 to May 2024. He is one of the most highly cited researchers as well as top 5 materials scientist in Sweden and India. He has published more than 1150 scientific papers in peer reviewed journals H-Index of 106, I-10 index 815 & no. of citations more than 51000. He has recently elected as the Fellow of the Royal Society of Chemistry (F-RSC), UK, and as an APS Fellow by the American Physical Society (APS), USA. He serves on the advisory board of the Journal of Materials Chemistry A and Materials Advances from the Royal Society of Chemistry. Additionally, he is the Associate Editor of Nano Energy.*

**R.S.V. P.**  
Department of Sciences  
Vivekananda Global University, Jaipur, Bharat

## पत्रिका

### तकनीकों पर शोध को दें बढ़ावा

जयपुर @ पत्रिका. विवेकानंद ग्लोबल यूनिवर्सिटी (वीजीयू), जयपुर में चौथे अंतरराष्ट्रीय सम्मेलन 'हालिया प्रवृत्तियां पर्यावरण और सतत विकास' का आयोजन हुआ। उद्घाटन समारोह में मुख्य अतिथि के रूप में उपस्थित आइआइटि रोपड़ के निदेशक प्रो. राजीव अहुजा शामिल हुए। उन्होंने कहा कि स्वच्छ ऊर्जा और पर्यावरण संरक्षण ही सतत विकास की नींव हैं। हाइड्रोजन और पानी, भविष्य के स्वच्छ ईंधन के रूप में उभर रहे हैं। हमें इन तकनीकों पर शोध और विकास को



बढ़ावा देने की आवश्यकता है ताकि हम ऊर्जा संकट और जलवायु परिवर्तन जैसी वैश्विक चुनौतियों का समाधान कर सकें। कार्यक्रम की अध्यक्षता कर रहे इंजीनियर ऑफर बगडिया ने सतत पर्यावरण की आवश्यकता पर जोर दिया।



## PLENARY SPEAKERS RTESD - 2025



**Dr. Fouran Singh**  
Sr. Scientist, Materials Science Group,  
Inter University Accelerator Centre (IUAC),  
New Delhi (INDIA)



**Prof. P. K. Jha**  
Professor and Head, Department of Physics,  
The Maharaja Sayajirao University of Baroda,  
Vadodara, Gujrat (INDIA)



**Prof. Pawan Kumar Kulriya**  
Professor, School Of Physical Sciences,  
Jawaharalal Nehru University,  
New Delhi (INDIA)



**Prof. Ambesh Dixit**  
Department of Physics, Indian Institute of  
Technology Jodhpur (INDIA)



**Prof. Pradeep Padmanabhan**  
Professor of Eminence, School of Nano Science and  
Nano Technology, Mahatma Gandhi University,  
Kottayam, Kerala (INDIA)



**Dr. Pankaj Poddar**  
Senior Principal Scientist,  
CSIR-National Chemical Laboratory,  
Pune, (INDIA)



**Prof. N. B. Chaure**  
Professor, Savitribai Phule University,  
Pune (INDIA)



**Prof. Rajesh Kumar**  
Professor, Department of Environmental  
Science, Central University of Rajasthan  
Kishangarh, (INDIA)



**Dr. N. S. Rawat**  
Scientific Officer-G,  
Bhabha Atomic Research Centre (BARC),  
Mumbai (INDIA)

R.S.V.P.

Department of Sciences  
Vivekananda Global University, Jaipur, Bharat

## INVITED SPEAKERS RTESD - 2025



**Dr. Jai Prakash**  
Department of Chemistry,  
National Institute of Technology (NIT),  
Hamirpur (INDIA)



**Dr. Vidyadhar Singh**  
University Department of Physics,  
Jai Prakash University,  
Bihar (INDIA)



**Dr. Vaibhav Kulshresta**  
Principal Scientist, CSIR- Central Salt &  
Marine Chemical Research Institute,  
Bhavnagar (INDIA)



**Dr. Veerendra Kumar Sharma**  
Scientist G, Solid State Physics Division,  
Bhabha Atomic Research Centre (BARC),  
Mumbai (INDIA)



**Dr. Prabhat Dwivedi**  
Principal Scientist, Centre for Nanosciences,  
Indian Institute of Technology (IIT) Kanpur  
(INDIA)



**Dr. Styapal Nehra**  
Centre of Excellence for Energy &  
Environmental Studies (CEES),  
DCRUST, Sonapat, (INDIA)



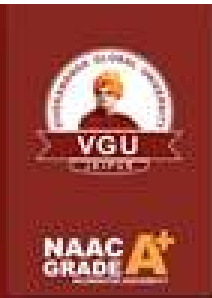
**Dr. Rakesh Kumar Meena**  
Department of Mathematics, Jawaharlal  
Nehru University,  
New Delhi (INDIA)



**Dr. Indra Sulania**  
Scientist 'F', Materials Science Group,  
Inter University Accelerator Centre (IUAC),  
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**Dr. Jai Prakash Tripathi**  
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## THEMES

- Ecofriendly and Sustainable Materials
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- Sustainable Agriculture and Food Systems
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## IMPORTANT DATES

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## Final Scientific Schedule of RTESD 2025

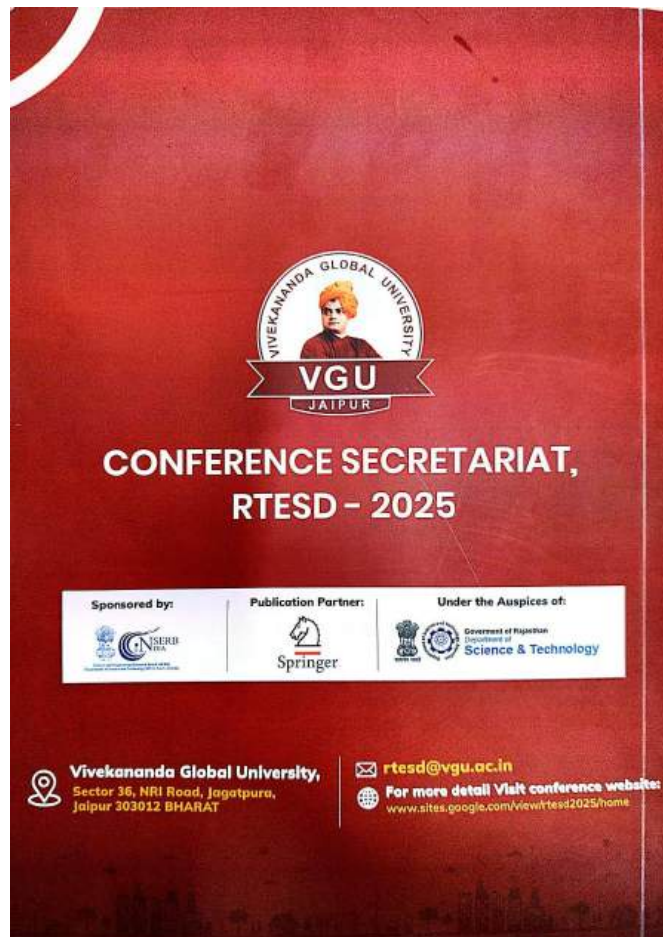
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<b>Scientific Program of RTESD 2025</b>				
<b>Day 1</b> <b>27 January 2025 (Monday) Venue: Auditorim, Technology Block</b>				
8:00 AM - 10:00 AM	Registrations			
10:00 AM-11:00 AM	Inauguration			
11:00 AM - 11:45 AM	Key note talk by Prof. Rajeev Ahuja, Director, IIT Ropar			
11:45:00 AM	High Tea			
	<b>Session 1</b> Session Chair: Prof. Rajeev Ahuja			
12:00:00 PM	PT-1	Prof. P. K. Jha	MSU, Baroda	
12:30:00 PM	PT-2	Dr. Fouran Singh	IUAC, New Delhi	
1:00:00 PM	PT-3	Prof. Pawan Kulriya	JNU, New Delhi	
1:30:00 PM	Lunch Break			
	<b>Session 2</b> Session Chair: Prof. P. K. Jha			
2:30:00 PM	PT-4	Prof. Ambesh Dixit	IIT Jodhpur	
3:00:00 PM	PT-5	Prof. P. Pradeep	MGU, Kottayam	
3:30:00 PM	PT-6	Dr. Pankaj Poddar	NCL, Pune	
4:00:00 PM	Tea Break			
	<b>Session 3</b> Venue: Auditorim, Technology Block Session Chair: Prof. Ambesh Dixit			<b>Session 4</b> Seminar Hall, Tech Block Session Chair: Dr. Pankaj Poddar
4:10 PM-5:30 PM	Oral Presentations: OP1-OP10			Oral Presentations: OP10-P20
7:00 PM Onwards	Welcome Dinner			
<b>Day 2</b> <b>28 January 2025 (Tuesday) Venue: Seminar Hall, Academic Block</b>				
	<b>Session 5</b> Session Chair: Prof. P. Pradeep & Prof. Mangej Singh			
9:00:00 AM	PT-7	Dr. N. S. Rawat	BARC, Mumbai	
9:30:00 AM	IT-1	Dr. Indra Sulania	IUAC, New Delhi	
10:00:00 AM	IT-2	Dr. Jai Prakash	NIT Hamirpur	
10:30:00 AM	IT-3	Dr. Rakesh Kumar	JNU New Delhi	
11:00:00 AM	Tea Break			
	<b>Session 6</b> Venue: Seminar Hall, Academic Block Session Chair: Dr. Jai Prakash			<b>Session 7</b> Venue: CPL 8, Academic Block Session Chair: Dr. Indra Sulania
11:30:00 AM	IT-4	Dr Veerendra Kumar Sharma	BARC Mumbai	IT-5      Dr. Styapal Nehra      DCRUST, Murthal
12:00 PM - 2:00 PM	Oral Presentations: OP 21-35			Oral Presentations: OP 36-50
2:00 PM	Lunch Break			
2:30 PM-4:30 PM	<b>Session 8: Poster Session</b> Venue: Technology Block Lawn <i>(Evaluators will reach on each poster to evaluate)</i>			
4:30 PM	Tea Break			
<b>Day 3</b> <b>29 January 2025 (Wednesday) Venue: Auditorium, Technology Block</b>				
	<b>Session 9</b> Session Chair: Prof. Kailash Agrawal, Prof. Mridula Purohit			
9:00 AM	PT-8	Prof. Rajesh Kumar	CU, Rajasthan	
9:30 AM-10:30 AM	Oral Presentations: OP 51-56			
10:30 AM	Tea Break			
11:00 AM	IT-6	Dr. Vidyadhar Singh	JPU Bihar	
11:30 AM	IT-7	Dr. Jai Prakash Tripathi	CU Rajasthan	
12:00 PM-1:30 PM	Oral Presentations: OP 57-65			
1:30 PM	Lunch Break			
14:30	Valedictory session and presentation awards			

## Abstract Book of RTESD 2025



Edited by:  
Dr. Nutan Sharma | Dr. Deeplata Sharma | Ms. Bharti Sharma

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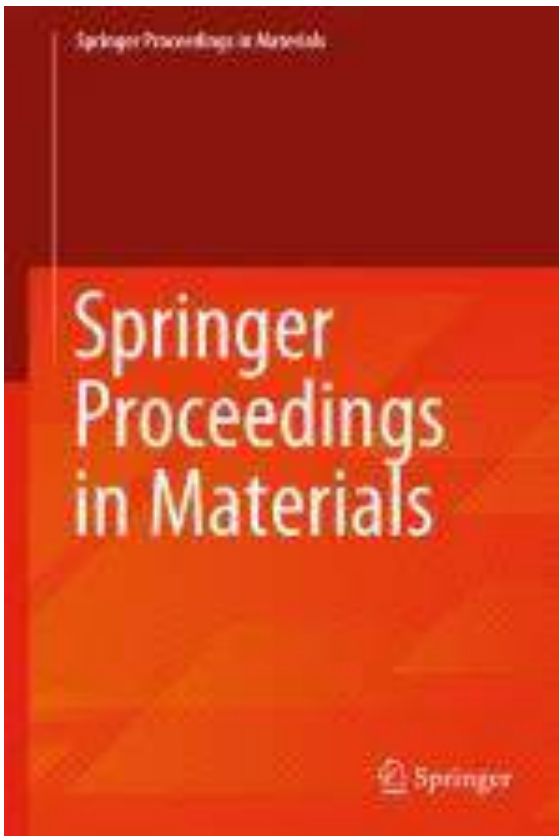


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