



SMMET 2022

1st INTERNATIONAL CONFERENCE ON
SUSTAINABLE MATERIALS
MANUFACTURING AND
ENERGY TECHNOLOGIES

HYBRID
CONFERENCE

JUNE 24th to
25th 2022



Organized by

Department of Mechanical Engineering,
RKGIT Ghaziabad (UP)-201003, India

Technical Collaborator



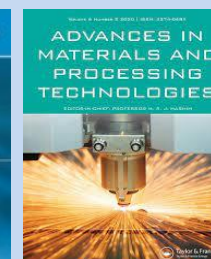
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About RKGIT Ghaziabad

Raj Kumar Goel Institute of Technology, Ghaziabad, established in September 2000, is a self-financing institute under the registered trust Raj Kumar Goel Educational Foundations. The institute is recognized by All India Council for Technical Education (AICTE) and is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow for B. Tech., B. Pharm., B.B.A., & M.B.A program. It is also a counselling center for the SEE-AKTU, the state entrance examination center for Ghaziabad Zone. RKGIT is also nominated by University as the nodal center for university examinations. The mission of RKGIT, Ghaziabad is to advance knowledge and educate students in science, technology, and other areas of scholarship that will best serve the nation and the world in the 21st century.

About Mechanical Engineering Department

The Department of Mechanical Engineering has the reputation of being among the finest in the state with a vision to be recognized globally for creating competent professionals. It has to its credit a strong team of 20 highly qualified and richly experienced faculty members, 10 out of whom are either PhDs or pursuing it from institutions of high repute. The department is well equipped with state of art laboratories that impart practical training to supplement theoretical knowledge. The department consistently strives to provide avenues to students for skills development and academic mobility to improve the potential for employability.

About the Conference

The scope of the conference, SMMET-22 is to provide a multi-disciplinary platform to the research community where they can share their cutting-edge ideas and innovations related to the different areas of Materials Manufacturing and Energy Technologies. The conference provides an opportunity for research scholars, academicians and engineers from all over the world to share and discuss their latest research findings and recent developments in various areas of mechanical and energy technologies. The conference will provide the opportunity to flourish the knowledge and help the participants to pursue research successfully in these areas.

Call for Papers

SMMET-2022 invites faculty, researchers, industrial participants and students to submit their original research work in Sustainable Materials, Manufacturing & Energy Technologies. The paper should be restricted to 10 pages with an abstract of maximum 250 words and 5 keywords. All papers must be submitted through easy chair link available in website. Paper submission mail id: smmet22@rkgit.edu.in

All submitted paper will be peer reviewed and accepted paper will be published in reputed Journals indexed by major databases including the SCI/SCIE/ESCI/Scopus/Web of Science.

Keynote speakers

Prof. H C Lim, Pusan National University, South Korea
Prof. P. N. Rao, University of Northern Iowa, USA
Dr. R.K. Gupta, North Carolina State University, USA
Dr. Manigandan Kannan, the University of Akron, USA
Dr. Amit Kumar, NUIST Nanjing, China
Dr. Nadim R Khandaker, North South University, Bangladesh
Dr. Nitin Upadhyay, University of Modern Science, UAE
Prof. G. N. Tiwari, IIT Delhi
Prof. B.S.V Prasad Patnaik, IIT Madras
Prof. Santosh K. Sahu, IIT Indore
Prof.M. Emran Khan JMI, New Delhi
Prf. Anil Kumar Sharma, JMI, New Delhi
Prof. Amit Pal, DTU, Delhi
Dr. Dibakar Rakshit, IIT, Delhi
Dr. Ashis Mallick IIT (ISM) Dhanbad
Prof. Arvind Gupta, YMCA Faridabad
Prof. N. P. YADAV, BIET Jhansi
Dr. Satyapriya Gupta, IIT Dharwad
Dr. D. B. Jani, GTU, Ahmadabad
Dr. Sumit Kumar, NIT Rourkela
Dr. Ravi Ranjan, R&D Engineer at V-Flow Tech Ltd. Singapore

Themes of the Conference

Topics for SMMET-22 include five different themes, but are not limited, to the following:

Sustainable Material

- ❖ Smart Bio-Materials
- ❖ Nano Materials for Sustainability
- ❖ Geoenvironmental sustainable materials
- ❖ Building and Construction Materials
- ❖ Smart materials for sewage treatment
- ❖ Ceramic and composite materials
- ❖ Multifunctional and smart materials
- ❖ Materials for Energy Storage and harvesting

Manufacturing Technology

- ❖ Manufacturing Processes and Machining
- ❖ Tribology and Heat Treatment
- ❖ Design of Mechanical Systems
- ❖ Automation, Mechatronics, and Robotics
- ❖ Intelligent logistics and transportation
- ❖ Safety, Security and Risk Management
- ❖ Supply Chain Management
- ❖ Production and Operation Management
- ❖ Metal casting, metal joining processes
- ❖ Industry 4.0
- ❖ Total Quality Management
- ❖ Operations Management
- ❖ Smart Cities and Factories

Energy Technologies

- ❖ Battery Thermal Management
- ❖ Biological Heat Transfer
- ❖ Refrigeration and Cryogenics
- ❖ Advanced Environmental Systems
- ❖ Aerospace and Automotive Technology
- ❖ Heat exchangers
- ❖ Micro electro mechanical systems
- ❖ Fluidized bed technology
- ❖ Mineral processing
- ❖ Energy Conservation and Management
- ❖ Energy Efficient Building

- ❖ Aerodynamics and Fluid Mechanics
- ❖ Biomass, Bio-Energy and Bio-Fuels
- ❖ Photovoltaic and Solar Thermal
- ❖ Waste to Energy Conversion
- ❖ Environmental Protection
- ❖ Hydrogen Energy and Fuel Cell Technology
- ❖ Emerging Technology
- ❖ Electric Vehicle Integration

Computational Engineering

- ❖ Artificial Intelligence
- ❖ Augmented reality and virtual reality
- ❖ Big Data analytics
- ❖ Cloud computing
- ❖ Cognitive computing
- ❖ Computational learning theory
- ❖ Computer graphics
- ❖ Cyber-physical systems
- ❖ Digital Thread and Twins
- ❖ Evolutionary Computing
- ❖ Fuzzy stochastic/time series modeling
- ❖ Hybrid machine intelligence techniques
- ❖ Image processing
- ❖ Intelligent Decision Support Systems
- ❖ Machine learning
- ❖ Multi Agent Systems (MAS)
- ❖ Statistical computation and simulation

Inter-Disciplinary Engineering & Allied topics

- ❖ Nuclear Engineering
- ❖ Agriculture Engineering
- ❖ Chemical Engineering
- ❖ Automobile Engineering
- ❖ Civil & Environmental Engineering
- ❖ Electronics & Communication Engineering
- ❖ Biomedical Engineering
- ❖ Medical, biological and pharmaceutical sciences

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Important Dates

Deadline for submission of paper	30th May 2022
Notification of Acceptance	15th June 2022
Revised Manuscript Due	17th June 2022
Last date of Registration	18th June 2022
Conference Date	24th - 25th June 2022

Registration Fee

Authors	India	Foreign
UG/PG Students	₹2000	\$100
Research Scholars/Academician	₹4000	\$150
Industry/R&D Organization	₹5000	\$200
Attendee	₹1000	\$50

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Paper Submission

Paper Submission link:

<https://easychair.org/conferences/?conf=smmet22>

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The registration details and paper template for submission to conference are available in the conference website: <https://rkgit.edu.in/SMMET2022>