

**AICTE SPONSORED**  
**3<sup>rd</sup> NATIONAL CONFERENCE**  
on  
**“Recent Advancements in Mechanical  
Engineering and Allied Fields”**  
**(RAMEAF - 2021)**  
**21 - 23, December 2021**

**Registration Form**

1. Name: .....
2. Designation:.....
3. Institute:.....
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5. Contact Number: .....
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*Signature of the Applicant*

*Signature & Seal – Head of the Institute*

**For Registration:** <https://forms.gle/9RtMSoEdahJzrbJX9>



**Note:**

**\*\* NO REGISTRATION FEE, BUT PUBLICATION FEE HAS TO BE PAID BY THE AUTHOR(S) AS PER JOURNAL PUBLICATION CHARGES. \*\***

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**RAMEAF – 2021**



**SRI KRISHNADEVARAYA EDUCATIONAL TRUST**  
**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Krishnadevarayanagar, Hunasamaranahalli, Yelahanka,  
International Airport Road, Bengaluru - 562 157

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**ON-LINE MODE**

**21 - 23, December 2021**



**CONVENORS**

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**ORGANIZED BY**

**Department of Mechanical Engineering**  
**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**  
**Bengaluru - 562 157**

## SRI KRISHNADEVARAYA EDUCATIONAL TRUST

Providing quality education through selfless service is the motto of Sri Krishnadevaraya Educational Trust. It was established in 1985 by a group of 19 philanthropists with the sole objective of imparting quality technical education. The professional colleges run by Sri KET include Sir M Visvesvaraya Institute of Technology (Sir MVIT), Krishnadevaraya College of Dental Sciences (KCDS) and Sir M V School of Architecture.

## SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Sir M Visvesvaraya Institute of Technology, Bengaluru, is one of the leading technical institutes established in 1986, having completed its silver jubilee. The institute has spacious campus covering about 133 acres. The lush green ambience of Sir MVIT makes the campus, free from pollution. Sir M Visvesvaraya Institute of Technology is recognized by AICTE, New Delhi, approved by Government of Karnataka and is affiliated to Visvesvaraya Technological University (VTU), Belagavi, and ISO Certified. The institute offers undergraduate, postgraduate courses along with research and consultancy activities in most of the departments with provision for Ph.D.

## UNDERGRADUATE COURSES

- Mechanical Engineering
- Industrial Engineering and Management
- Civil Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Telecommunication Engineering
- Computer Science and Engineering
- Information Science and Engineering
- Biotechnology Engineering

## POSTGRADUATE COURSES

- M.Tech in Computer Integrated Manufacturing
- M.Tech in Electronics and Communication
- M.Tech in Biotechnology
- Master of Computer Applications (MCA)
- Master of Business Administration (MBA)

## VISION OF THE INSTITUTE

- To be a centre of excellence in technical and management education concurrently focusing on disciplined and integrated development of personality through quality education, sports, cultural and co-curricular activities.
- To promote transformation of students into better human beings, responsible citizens and competent professionals to serve as a valuable resource for industry, work environment and society.

## MISSION OF THE INSTITUTE

- To impart quality technical education, provide state-of-art facilities, achieve high quality in teaching-learning and research and encourage extra and co-curricular activities.
- To stimulate in students a spirit of inquiry and desire to gain knowledge and skills to meet the changing needs that can enrich their lives.
- To provide opportunity and resources for developing skills for employability and entrepreneurship, nurturing leadership qualities, imbibing professional ethics and societal commitment.
- To create an ambience and nurture conducive environment for dedicated and quality staff to upgrade their knowledge and skills and disseminate the same to students on a sustainable long term basis.
- To facilitate effective interaction with the industries, alumni and research institutions.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in 1986 and has been recognized as R & D Centre by VTU, Belgaum, for carrying out Research activities leading to M.Sc. (Engg.) and Ph.D. Degrees. The department offers two UG programs namely, B.E.(Mechanical Engineering) and B.E. (Industrial Engineering and Management, started in 1995) and one PG program namely, M.Tech.(Computer Integrated Manufacturing, started in 2002). The sanctioned students' strengths of B.E. Mechanical Engineering are 120, B.E. Industrial Engineering and Management is 30 and M.Tech. CIM is 25. At present the Ph.D. scholars are working on Solid-State-Welding, Nanomaterials, Composite Materials and Alternative Fuels etc.

## VISION OF THE DEPARTMENT

- To become a leading learning centre in Mechanical Engineering.

## MISSION OF THE DEPARTMENT

- Enrich the undergraduate experience through experimental learning, and fostering a personalized and supportive environment for their overall development.
- Provide opportunities to develop talented and committed human resource to meet the needs of profession and society.
- Provide research and intellectual resources to address contemporary and complex problems of industry and research.

## OBJECTIVES OF THE CONFERENCE

Third National Conference on *“Recent Advancements in Mechanical Engineering and Allied Fields”* brings together leading academic scientists, researchers, engineers and industry professionals to exchange and share their experiences about the latest developments in the field of Mechanical Engineering and Allied Fields for various interdisciplinary engineering applications. This conference provides a platform to discuss the most recent innovations, trends and future challenges in the field of Mechanical Engineering and allied fields.

## CALL FOR PAPERS

Unpublished original research contributions are invited from prospective authors from industries, academic institutions, R&D organizations and professional engineers. Plagiarism should be below 20%.

**\*\*Selected Papers will be published in Scopus Indexed Journal. The paper format and journal details will be communicated after acceptance of the abstract along with Bank Account Details.**

## INVITED LECTURE

1. **Dr. Sanjay Mavinkere R.** – Sr. Research Scientist (Specialist King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand.
2. **Dr. Shivaprasad C S**, DGM, HAL, Bengaluru.

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**Prof. Madhu Kumar K**

## IMPORTANT DATES

Submission of Abstract	01 <sup>st</sup> November 2021
Confirmation to Authors	05 <sup>th</sup> November 2021
Submission of full length paper	20 <sup>th</sup> November 2021

**Papers can be sent to: [rameaf2021@gmail.com](mailto:rameaf2021@gmail.com)**

## FOR ALL CORRESPONDENCES PLEASE CONTACT

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## Conference Themes

### **Smart and Sustainable developments In Materials**

- **Advanced High strength steels**
- **Biomaterials**
- **Ceramic Materials**
- **Characterization & Testing**
- **Composite Materials**
- **Dynamic Behavior of Materials and Structures**
- **Functional Materials**
- **High temperature & Cryogenic Materials**
- **Luminescence Materials and Its Applications**
- **Materials for Automotive, Energy & Environment**
- **Materials for Solid State Ion Batteries**
- **Nanomaterials / Nanotechnology**
- **Porous Materials and Their Applications**
- **Smart and Device Materials**
- **Smart Construction Materials**
- **Thermo Electric Materials**

### **Smart and Sustainable developments In Manufacturing**

- **CAD/CAM/CAE/CIM**
- **Computational Mechanics & Techniques**
- **Control and Automation**
- **Advanced Manufacturing**
- **High-Speed/Precision Machining & Inspection**
- **Industrial Robotics, Intelligent Systems and Automation**
- **Machine Vision / AI and ML**
- **Measurement Control Technologies**
- **Mechatronics, MEMS and Nanotechnology**
- **Modeling, Analysis & Simulation of Manufacturing Processes**
- **Production, Operations and Supply Chain**
- **Simulation and Optimization Techniques**
- **Surface Engineering**
- **Welding Technology**
- **Tribology**
- **System Dynamics and Vibration**
- **Product Design and Development**

### **Smart and Sustainable developments In Energy**

- **Alternative fuels**
- **Biogas and Biomass**
- **Energy Storage and other Storage Devices**
- **Future Energy Technologies**
- **Global warming & Green Energy Options**
- **Green Buildings**
- **Health and Environment**
- **Heat & Mass Transfer**
- **Hybrid vehicles & Integration**
- **Refrigeration & Air-conditioning**
- **Sustainable Product Development**
- **Thermal Energy**
- **Nonlinear Dynamics**



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