



**VIT**<sup>®</sup>  
**BHOPAL**  
www.vitbhopal.ac.in



In Joint Collaboration with



# 2<sup>nd</sup> International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR)

Hybrid Mode

**December 15 – 16, 2023**

## About VIT Bhopal University

The VIT legacy, started from Vellore Engineering College 38 years ago under the visionary leadership of Dr. G. Viswanathan, Founder-Chancellor, to offer world-class education for the development of society. VIT Bhopal University is ably spearheaded by Dr. G. Viswanathan, Chancellor, Mr. Sankar Viswanathan, Vice-President, Ms. Kadhambari S. Viswanathan, Assistant Vice-President. The University is currently led by Dr. A. Senthil Kumar, Vice-Chancellor. They share the mission to make VIT a global center of education. Starting from the 2017 academic year, the new Ultra-modern university campus, sprawling over 250 acres, is in the town of Kothrikalan District Sehore, surrounded by green, lush fields and a serene environment. This new and contemporary campus is aiming to become the primary hub of education, with leading-edge and high-tech developments in a wide variety of areas. At present, VIT Bhopal University offers core engineering programs such as Mechanical Engineering, Aerospace Engineering, Computer Science and Engineering, Electronics and Communication Engineering leading to B. Tech degree, M. Tech and allied subject programs such as MSc, MCA, BBA, etc., are also offered. At VIT Bhopal University, the extra-curricular activities and employment needs of the students will be taken care of by various clubs and dedicated career development cells.

# STAAAR- 2023

Organized by

School of Mechanical Engineering (SMEC)

VIT Bhopal University

Co-sponsored by SERB-DST



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
**SCIENCE & TECHNOLOGY**

यत्नेन जयते

## Important Dates

Full length paper submission Deadline:	<b>17<sup>th</sup> Nov. 2023</b> <b>25<sup>th</sup> Nov. 2023</b> <b>23<sup>rd</sup> Nov. 2023</b>
Comments notification to Authors:	<b>29<sup>th</sup> Nov. 2023</b>
Final paper approval:	<b>30<sup>th</sup> Nov. 2023</b>
Registration opens:	<b>1<sup>st</sup> Dec. 2023</b>
Last Date for Registration:	<b>10<sup>th</sup> Dec. 2023</b>

Paper submission and presentation is permitted by registered authors only.

## About Conference

STAAAR 2023, the 2<sup>nd</sup> International Conference on Sustainable Technologies and Advances in Automation, Aerospace, and Robotics, in association with the Material Advantage student chapter, offers a global stage for educators, researchers, Ph.D. candidates, research scholars, and industry experts to present, discuss, and share insights on both theoretical and practical research in various aspects of Mechanical, Aerospace, and Robotics engineering. Moreover, STAAAR 2023 strives to establish a leading cross-disciplinary platform to explore emerging innovations, prevailing trends, and the complexities faced in contemporary contexts.

## About School of Mechanical Engineering (SMEC)

The School of Mechanical Engineering (SMEC) at VIT Bhopal offers undergraduate degrees and research programmes in Mechanical Engineering, Mechanical Engineering specialization in Artificial Intelligence and Robotics, and Aerospace Engineering. SMEC has been an integral part of the university since its inception. Our faculty members possess diverse expertise, spanning areas such as Machine Design, Thermal & Fluid Sciences, and Manufacturing Engineering within the Mechanical Engineering domain. Our Aerospace Engineering faculty specializes in structures and propulsion, while those in AI and Robotics come from backgrounds in Robotics and Automation. The school offers a comprehensive array of core courses along with a variety of elective courses, carefully designed in consultation with industry experts.

## CHIEF PATRON

Hon'ble Dr. G. Viswanathan

Founder & Chancellor

## PATRONS

Mr. Sankar Viswanathan

Vice President

Ms. Kadhambari S. Viswanathan

Assistant Vice President

## Co-PATRONS

Dr. A. Senthil Kumar, Vice-Chancellor

Dr. Pradyumna Yadav, Registrar

## CHAIRMAN

Dr. S. Balaguru, Dean, SMEC, VIT Bhopal

## ORGANIZING SECRETARIES

Dr. Rohit Sharma, Assistant Professor

Dr. Shiv Manjaree Gopaliya, Assistant Professor

## CONVENERS

Dr. Prashant G K, Assistant Professor

Dr. Ashish Vashishtha, SETU, Ireland

## Co- CONVENERS

Dr. Vijay Kumar Patidar, Sr. Assistant Professor

Dr. Pushpdant Jain, Sr. Assistant Professor

Dr. K Sripriyan, Assistant Professor

Dr. Abha Gupta, Assistant Professor

Dr. Ankush Tharkar, Assistant Professor

Dr. Karthik Rao M.C, Assistant Professor

Dr. Abhishek Shrivastava, Assistant Professor

Dr. Rabindra Prasad, Assistant Professor

Mr. Umakanta Meher, VIT Bhopal

## ADVISORY COMMITTEE

Dr. Poonkuntran S, Dean SCSE, VIT Bhopal

Dr. Debashis Adhikari, Dean SEEE, VIT Bhopal

Dr. Hemant Kumar Nashin, Dean SASL, VIT Bhopal

Dr. Sheetal Sharma Dean SOA, VIT Bhopal

Dr. Prasad Begde, Dean, VIT-BS

Dr. Siddhartha Maiti, SBET, VIT Bhopal

Dr. Dean Callaghan, Director engCORE, SETU, Ireland

Dr. Vincent O'Brien, SETU, Ireland

Dr. Lilibeth A. Zambrano M, SETU, Ireland

## CONTACT DETAILS

Dr. Rohit Sharma, Assistant Professor, SMEC

Mob: +91-9131960256

Dr. Shiv Manjaree Gopaliya, Assistant Professor, SMEC

Mob: +91-9891354291

Mail: [staaar@vitbhopal.ac.in](mailto:staaar@vitbhopal.ac.in)

Website: <https://vitbhopal.ac.in/event/staaar-2023/>

## CALL FOR PAPER

Topics include, but are not limited to:

- ✓ Aerodynamics
- ✓ Applied Mechanics and Finite element analysis
- ✓ Biomaterials and Bio-mechanics
- ✓ Computer-aided engineering design
- ✓ Computational Fluid Dynamics
- ✓ Dynamics and Vibration
- ✓ Experimental Fluid Dynamics
- ✓ Green Manufacturing Engineering Applications of AI
- ✓ Green Manufacturing
- ✓ Internal Combustion Engines
- ✓ Instrumentation and Control
- ✓ Material characterization
- ✓ Manufacturing Techniques
- ✓ Machine Learning in Fluid Dynamics and Heat Transfer
- ✓ Rapid Prototyping
- ✓ Robotics and Automation
- ✓ Renewable Energy
- ✓ Polymers and Composites

## REGISTRATION FEE DETAILS

Participants Category	Registration Fee + (Incl. of GST 18%)
Students/ Research Scholars	Rs. 750
Academicians/ Faculty	Rs. 1500
R&D Organizations/ Industry	Rs. 2500
Participants from abroad	USD 60 / Rs. 4980

## PUBLICATION

After peer review, accepted and presented papers in STAAAR 2023 will be published in "MATEC Web of Conferences" indexed in WoS /Scopus with an additional fee of around Rs. 3000. Selected papers from the conference will be published in Technologies (MDPI journal), Impact Factor- 3.6.



technologies

## FULL MANUSCRIPT SUBMISSION LINK

<https://forms.gle/oMxFm5WYJSWZEo5z6>



Scan me to submit the manuscript

## REGISTRATION LINK

<https://forms.gle/bWSTDz8xfLuBdBtD6>



Scan me for Registration

## Proceedings of the 1<sup>st</sup> STAAAR Conference



Scan me for STAAAR 2022 Proceedings

