

Organizing Committee

Chief Patron

Dr. G. Viswanathan, Chancellor

Patrons

Mr. Sankar Viswanathan, Vice president
Dr. Sekar Viswanathan, Vice President
Mr. G. V. Selvam, Vice President
Ms. Kadhambari S. Viswanathan, Assistant Vice President
Dr. Sandhya Pentareddy, Executive Director
Dr. Rambabu Kodali, Vice Chancellor
Dr. S. Narayanan, Pro-Vice Chancellor
Dr. K. Sathiyarayanan, Registrar

Advisory Committee

Deans and Directors, VIT, Vellore

Organizing Chair

Dr. R. Vasudevan, Professor & Dean, SMEC

Conference Chair

Dr. M. Mohamed Ibrahim, SMEC

Conference Co-Chair

Dr. S. Denis Ashok, SMEC

Organizing Committee Members

Prof. Madhvesh Pathak, SAS
Prof. Boopathi M, SMEC
Prof. N. Senthilkumar, SCE
Prof. Shankar Raman D, SCHEME
Prof. Jakeer Hussain, SELECT
Prof. Jasmin Pemeena, SENSE
Prof. Debi Prasanna Acharjya, SCOPE
Prof. Venkatesh P, SITE
Prof. Jabez Osborne W, SBST
Prof. M. A. Jayasri, SBST
Prof. Kiran. G , V-SIGN
Prof. Anil Verma, VITBS

Eligibility:

U.G/ P.G Students
Research Scholars (Outside VIT) & Faculty Members

Registration:

Conference registration can be made through online.

Fee Details:

UG/ PG/ Research Scholars	: INR 800
Faculty	: INR 900
Industry Participants	: INR 1000
International Participants	: INR 10000

Link for Registration, Online Payment & Full-Length Paper Submission <https://events.vit.ac.in>

Conference registration includes paper presentation, and certificates of participation/ presentation. Conference will be conducted through online platform. All the submitted papers will go for blind peer review by competent reviewers. **Best papers will be published in Scopus indexed journals.**

Paper Format: Paper should be as per IEEE format. The link for the paper format is provided below for your kind perusal: <https://www.ieee-pes.org/templates-and-sample-of-pes-technical-papers>

Registration of at least one author is mandatory to present the paper. Participation certificate will be given to all registered participants.

Dates to remember:

Conference date: 30th November 2020 & 1st December 2020.
Last date for submission of full paper: 5th November 2020
Notification of Acceptance through mail: 15th November 2020
Last date for Registration: 20th November 2020

Address for Correspondence

Dr. M. Mohamed Ibrahim,
Associate Professor,
School of Mechanical Engineering,
Vellore Institute of Technology,
Vellore, 632014, Tamilnadu, India.
Phone No: 9444433820
E-mail: ibrahim.m@vit.ac.in



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

21st International Conference on Science, Engineering & Technology (ICSET)



30th November 2020

&

1st December 2020

ICSET-2020

Organized by

School of Mechanical Engineering (SMEC)
Vellore Institute of Technology
Vellore - 632 014

About VIT

VIT, one of the premier institutes in India, established in 1984. VIT is the first educational institution in India to get ISO 9002 certified by the DNV of The Netherlands and accreditation from IEE (UK). Further it has also been accredited by NAAC (UGC). Mission of VIT is to educate students from all over India, including those from the local and rural areas, and from other countries, so that they become enlightened individuals, improving the living standards of the families, industries and society. It provides individual attention, world-class quality education and takes care of character building. VIT was established the aim of providing quality higher on par with international standards dedicated to provide excellence in teaching, research and service. Our Memoranda of understanding to various international universities are our major strength. It also provides an opportunity on students and faculty exchange programmes with international universities to encourage joint research collaborations for mutual benefit. The campus has a cosmopolitan atmosphere with students from all parts of the globe. The latest CAL Curriculum offered in VIT covers the latest developments in the respective discipline with focus on student projects and designed based on market needs, whereby employability, developing skills as entrepreneur and grooming students as young scientists are major priorities.

VIT offers 36 Undergraduate, 31 Post-graduate, 4 Integrated and 3 Research programmes in 13 schools. VIT is also rising ahead in the number of publications along with H-index of 109. Research centers are also part of the schools, encouraging inter departmental collaboration and opportunity for students to participate in exciting research projects in Automotive research, Crystal research, Nanotechnology, Nano-biotechnology, Bio-separation Technology and Biomaterials, etc.

School of Mechanical Engineering (SMEC): The School of Mechanical Engineering is amongst the premier schools of VIT started functioning right from 1984. The school has got a team of highly qualified faculty members, many holding PhDs from the elite institutes across the globe, to teach and train the best minds of this country. The pride of the school lies in the significant research funding received from several Government agencies such as DST, DRDO, MNRE, CSIR, CVRDE, CPDO, IE, AR&DB, CVRDE, BRNS, ISRO, UGC, NRB, AICTE etc., Memoranda of Understanding (MoUs) with various Industry Research Organisations and leading Universities. The Department of Science and Technology, Govt. of India has recognized the school for its research activities and supported in 2003 and 2010 under FIST scheme. The School has modern facilities, enabling cutting edge research in a wide spectrum of technological areas. The school actively assists local industries in product design, complex-part

manufacturing and Computational Fluid Dynamics. The courses offered cater to the needs of Aerospace, Defense, Manufacturing, Energy and Automotive industries. This has enabled the students to pursue higher studies in leading Universities in India and abroad. Three of the Bachelors Degree Programmes offered by the School, B. Tech. Mechanical Engineering, B.Tech.Mechanical with Specialisation in Automotive Engineering and B.Tech. Mechanical with Specialisation in Energy Engineering are accredited by the Engineering Accreditation Commission of ABET.

About the conference:

This 21st International Conference will serve as a great platform with excellent form of academicians and experts from industries for sharing knowledge and research in the field of life sciences. Engineering and Technology along with managerial aspects. The main objective is to provide research and development activities in all the domains to facilitate information exchange between researchers, developers, engineers and students working around the globe. Concepts and products that develop new ideas or theories, attempt to advance our understanding of real-world phenomenon and/or address any of the research themes are encouraged. Selected papers will be referred by the steering committee for publication in Scopus indexed international journals. Adjunct professors in different disciplines from abroad will deliver special lectures.

Conference Themes:

1. School of Advanced Sciences (SAS)

Materials / Inorganic Chemistry, Organic Chemistry, Pharmaceutical Chemistry, Environmental & Analytical Chemistry, Photonics, Medical Physics, Material Physics, Crystal Growth, Nuclear Physics, Algebra, Graph Theory, Pure Mathematics, Applied Mathematics, Fluid Dynamics, Operations Research, Quantum Information Computation and Communication, Applied Statistics, Probability & Statistics, Data Science - Machine learning, Artificial intelligence & Business Analytics.

2. School of Bio Sciences & Technology (SBST)

Nanobiotechnology, Medical Biotechnology, Pharmacology & Toxicology, Bioremediation, Marine Diversity and Resources, Immunology, Biophysics, Nutraceuticals, Probiotics, Cancer Biology, Gene Therapy, Stem Cell Biology, Plant Biotechnology, Plant Metabolites and Pigments, Down Stream Processing, Food Technology, Agricultural Biotechnology, Pharmaceutical Biotechnology, Bioinformatics, Drug Designing

3. School of Civil Engineering (SCE)

Structures and Sustainable Materials, Geotechnical & Earthquake Engineering, Green buildings, Structural Health Monitoring, Management of Infrastructure

construction, Aspects of Surveying & Advances in Transportation Engineering, Environmental monitoring and assessment.

4. School of Chemical Engineering (SCHEME)

Sustainable and Clean Technologies, Process design and Optimization, Modern Separation techniques, Process Instrumentation and control, Process Integration and Intensification.

5. School of Computer Science and Engineering (SCOPE)

IoT and its related applications, Big data analytics and Big data frameworks, Cyber security, Artificial intelligence, Machine learning, Deep learning, Cloud application development and management, Network security, Security and privacy for Big data, Security and privacy in Crowd sourcing, Applied cryptography, Cryptanalysis, Biometrics security and privacy, Authentication and Non-repudiation, Blockchain technologies and Business Systems.

6. School of Electrical Engineering (SELECT)

Power Electronic Converters and Control, Energy Efficient Electric Drives, Renewable energy and Microgrid, Industrial Automation and Home Automation, Robotics and Control, Black chain in Automation, Machine Learning and Artificial Intelligence, Soft computing and Optimization, Electrical Machine Design, Intelligent sensing techniques and control, Hybrid solar PV, wind, fuel-cell, Thermoelectric generation systems.

7. School of Electronics Engineering (SENSE)

Advanced wireless communication and Networking, Advanced Embedded computing and automation, Smart Sensors and Applications, Digital and Analog IC design, Nanotechnology.

8. School of Information Technology & Engineering (SITE)

Machine Learning and Block chain Technology, Cyber Physical Systems, Next Generation 5G Networks, Digital Forensics, Computer Vision, Big data Analytics, Soft Computing Cloud Computing, Software Engineering, Communication Networks, Semantic Web Digital Image Processing.

9. School of Mechanical Engineering (SMEC)

Challenges in Electric/Hybrid vehicle – Indian Context, Emerging Technologies in Factories of the Future, Advanced Quality Systems Tools and Quality Management, The Relevant Technology Applications of Mechatronics, Biomechanics, Sustainable and Digital Manufacturing in Global Era of Cloud Manufacturing, 3D Printing - Challenges/Applications/ Future.

10. School of Social Science & Languages (SSL)

Role of e-banking in rural India, Challenges of women Entrepreneurs, Recent trends in Indian finance system, Use of technology in Language Teaching & Learning, Social media as a communication tool, Gender biases in literature.

11. VIT Business School (VITBS)

Marketing – Finance and Economics – Information Systems and Operations – Organizational Behavior & Human Resources Management – Strategy & International Business.

12. VIT School of Design (V-SIGN)

Smart products for healthcare - Observational study of medical problems for design intervention - Study of users of medical products - Design of diagnostics tools/devices - Biomedical devices - Design to solve real-life clinical problems.

13. VIT School of Architecture (V-SPARC)

Design methodologies, Urban ecology, New Urbanism, Green Architecture and Urban Planning, Climate Change Adaptation, Interior Architecture, Security in building and cities, Disaster Risk Management, Landscape Architecture.