ABOUT THE INSTITUTION

Sri Sivasubramaniya Nadar College of Engineering (SSNCE), founded by Padma Bhushan Dr. Shiv Nadar, Chairman, HCL Technologies, stands out as a premier center of higher learning with a mission of pursuing excellence in education and research. The institution, with its diverse and dynamic community of students offers a distinctive combination of some of the finest graduate, undergraduate and research programs, accomplished faculty, world class facilities and a residential campus set on a sprawling 230 acres of sylvan surroundings. SSNCE is a home to aesthetically designed buildings with state of the art computer and internet facilities, modern workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields in addition to an indoor stadium with gymnasium. SSNCE has faculty strength of 254 with a faculty student ratio of 1 faculty for every 15 students. Out of the total, 235 faculties are Ph.Ds. and 19 are pursuing their Ph.D. SSNCE has been ranked 12th among all the private engineering colleges in the country and ranked 45th among all the engineering colleges and 89th among all the educational institutions in the NIRF (2021), instituted by the MHRD, Government of India.



CONVENERS

Dr. K. Babu Dr. M. Dhananchezian Dr. K. Jayakumar

CO-CONVENERS

Dr. R. Damodaram Dr. Divya Zindani Dr. S. Santosh Dr. V. K. Anirudh

CONTACT DETAILS

Website: www.ssn.edu.in/mech/icpcm Email: icpcm@ssn.edu.in WhatsApp: Phone: +91 44 2746 9700 (Ext: 420/432)

Organized by **Department of Mechanical Engineering**

Space for Journal information

ABOUT THE CONFERENCE

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was established in the year 2007. The department offers B.E (Mechanical Engineering) from the academic year 2007 – 2008, M.E (Manufacturing Engineering) from the academic year 2012 - 2013 and M.E (Energy Engineering) from the academic year 2013 – 2014. The department became an approved research centre of Anna University in the year 2012. Ever since, 33 students have successfully completed their Ph.D. and currently 131 students are pursuing Ph.D. The UG program of the department has been accredited by the prestigious National Board of Accreditation (NBA). The department has research projects funded by Department of Science and Technology (DST), All India Council for Technical Education (AICTE), Science and Engineering Research Board (SERB) and Naval Research Board (NRB) to the tune of around Rs.4.12 Crores for conducting research in Friction Stir Welding, Magnetic Moulding of Composite Materials, Vibration Studies, Robotics, Abrasive Reclamation and Finite Element Analysis of Composites. The department is also actively involved in consultancy projects worth over 30 lakhs from industries. The department has an active AICTE sponsored Industry Institute Partnership Cell (IIPC) to carry out healthy instituteindustry interactions at various levels.

Materials have defined the evolution of human civilization. Gone are the stone, bronze and iron ages. In the digital age, it's all about optimally combining different materials like light weight materials, smart materials, shape memory alloys, carbon fibres, polymers etc., in an effort to add value to the machines they make. But, what makes these materials is the intricate technology used to manufacture it. Different processes are known to add different values to the material. This conference aims to bridge the knowledge gap between different manufacturing processes, the value they add to the material, and why it is necessary. Further, to aid participants get an opportunity to listen to, learn from and interact with renown speakers and fellow researchers worldwide, the conference is being held in an online mode.

Do join us in this conference to get to know how the latest and greatest technologies are enforced, and why it's done in a certain way. Learn how these technologies can enhance human life. Discover how processing enhances the mechanical behaviour of different materials. Experience the plethora of knowledge. Engage in exchange and transfer of technical wisdom in the areas of materials, their processing and characterization.



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Present

International Conference on Processing and Characterization of Materials **ICPCM** – **22** (Virtual) 7th & 8th, March - 2022

CALL FOR PAPERS

Original contributions based on the results of research and development from various engineering fields are solicited for presentation on the topics listed below, but not limited to:

PROCESSING OF MATERIALS

Additive Manufacturing Advances in Manufacturing of Metals, Ceramics and Metal Matrix Composites CAM/CIM Casting and Forming Technology **Composites and Polymer Processing** Conventional and Unconventional Machining Green and Sustainable Manufacturing High Speed Machining Hybrid Manufacturing Industrial Automation and Industry 4.0 Micro-nano Manufacturing Materials Joining and Forming Processes **Optimization Algorithms Precision Manufacturing** Robotics and AI in Manufacturing

MATERIALS AND METALLURGY

CAD/CAE/CAPP **Corrosion and Erosion** Materials Characterization Microstructure, Plasticity and Testing Mechanical Behaviour and Fracture Nano Materials New Energy Materials Non-Destructive Testing Measurement and Metrology Modelling and Simulation Powder Metallurgy Processing Smart and Biomaterials Surface Engineering and Coatings Tribology and Wear All other allied processes

Best papers from each session will be given a certificate.

The overall best paper from each category will get a certificate and a cash award.

KEYNOTE SPEAKERS



Prof. B.S. Murty, Director of IIT-Hyderabad

Prof. B.S. Murty is a renowned Indian metallurgist, who received the Shanti Swarup Bhatnagar Prize, the highest science award in India. He completed his Ph.D. from IISc and has over 18,000 citations to his name. On the 7th of March 2021, he will enlighten us on "Characterization of Materials" through his rich experience.



Dr. Khalid Rafi, Senior Lead, Additive Manufacturing Program Development, ASTM International - Singapore

Dr. Rafi completed his Ph.D. from IIT Madras. He then pursued his post doctoral research at University of Louisville and has close to 2000 citations to his name. He currently works at ASTM and provides consultancy services to several companies in Europe and USA. On the 8th of March 2021, he will deliver a lecture on "Current Developments in Processing of Materials".

CHIEF PATRON:

Dr. Shiv Nadar. Founder and chairman of HCL Technologies Ltd., Founder of Shiv Nadar Foundation

PATRONS:

Dr. Kala Vijaykumar, President - SSN Institutions Dr. V. E. Annamalai, Principal - SSN Institutions Dr. S. R. Koteswara Rao, Professor and HoD, Mechanical Engineering, SSNCE.

ADVISORY COMMITTEE

International

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REGISTRATION

REGISTRATION FEES

		Abstract Submission:	07.01.2022
Category	Registration Fees	Abstract Acceptance:	15.01.2022
Students/scholars	Rs. 500	Paper Submission:	31.01.2022
Academics/Industry	Rs. 1000	Paper Accentance:	14 02 2022
Foreign nationals	50 USD	Last Date for Registration	21 02 2022

At least one registration per paper is mandatory for presenting the paper in the conference and only presented papers will be recommended for publication in the journal. The registration fee is to be paid through Demand Draft (DD)/ online transfer. Please refer to the conference website for more details about registration and paper formats. The DD should be in favour of "The Principal, SSN College of Engineering" payable at Chennai. The DD or details of online transfer along with registration form should be sent to "The Convener - ICPCM 2022 on or before 21.02.2022.

National:

- Dr. S. Aravindan, IIT Delhi
- Dr. M. Kamaraj, IIT Madras
- Dr. V. Sampath, IIT Madras
- Dr. I.A. Palani, IIT Indore
- Dr. N. Chawake, IIT Kanpur
- Dr. P. Ramkumar, IIT Madras
- Dr. K. Jayabal, IIITDM Kanchipuram
- Dr. A. Noorul Haq, NIT Trichy
- Dr. N. Gnanasekaran, NIT Surathkal
- Dr. K. Sekar, NIT Calicut
- Dr. Promod Kumar Patowari, NIT Silchar
- Dr. Jagadish, NIT Raipur
- Dr. K. Balachandar, SASTRA, Thanjavur
- Dr. A. Rajadurai, Madras Institute of Technology, Chennai
- Dr. Surya Prakash, BML Munjal University, Gurugram

IMPORTANT DATES