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Dr. R. Santhana Krishnan
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Aeronautical Engineering, HITS

ORGANISING SECRETARY

Dr. M. Chandrasekar
Associate Professor, HITS

Dr. R. Sundaramoorthy
Assistant Professor, HITS

REGISTRATION FEE

Industry and R&D Establishments : Rs. 5,000/-

Academic Institution / Faculty : Rs. 2,500/-

Students / Research Scholars : Rs. 1,500/-

MODE OF PAYMENT (RTGS/NEFT/IMPS)

Bank Name : Indian Overseas Bank

Account Name : Hindustan Institute of Technology and Science

Account Number : 255402000000001

IFSC Code : IOBA0002554

Branch : Padur, Chennai-603103.



FOR PAYMENT THROUGH UPI

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Last Date to Register

08th February 2024



**Scan for
Registration**

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HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)



National Workshop on

ADVANCES IN AEROSPACE STRUCTURAL DESIGN (AASD2024)

19 - 21 February 2024

Organized by
SIMCRASH CENTRE

Department of Aeronautical Engineering



**STRUCTURAL
IMPACT & CRASH
SIMULATION CENTRE**

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ABOUT

HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE

HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE (HITS), is a leading prestigious and recognized institution in India, located at Chennai, Tamil Nadu. Commenced in 1985, it offers a wide spectrum of Undergraduate, Postgraduate, Research & Doctoral Programmes in diverse fields of Engineering, Technology, Architecture, Management, Law, Fashion Design, Aviation, Applied Sciences, Allied Sciences, and Arts and Sciences. HITS is a Deemed to be University granted by UGC in 2008 and has received Category-II status from MHRD. The technical courses at UG and PG levels are approved by AICTE. Engineering degree programmes offered by HITS are accredited by National Board of Accreditation (NBA) and The Institution of Engineering and Technology, UK (IET). HITS is a part of the most illustrious Hindustan Group of Institutions which caters to the academic needs of over 18,000 students.

DEPARTMENT OF AERONAUTICAL ENGINEERING

Department of Aeronautical Engineering is a pioneering department established in 1996 to provide quality technical education in the field of Aeronautics and producing the maximum aeronautical and aerospace engineers in the country. B.Tech programmes offered by Department of Aeronautical Engineering is accredited by The National Board of Accreditation (NBA) and The Institution of Engineering and Technology, UK (IET). The department acquired an exemplary reputation in providing good quality education in under graduate and post graduate programmes by a blend of experienced faculty in Aircraft Design, Aerodynamics, Aircraft Structures, Aircraft Propulsion, Aircraft Systems and Avionics. The department is endowed with various aircrafts, laboratory facilities, flight simulator, Satellite Technology Center, Piper Seneca aircraft and Cessna aircraft for practical learning.

SIMCRASH CENTRE

Structural Impact & Crash Simulation Centre (SIMCRASH) at the Hindustan Institute of Technology & Science was inaugurated on 12th January 2017. SIMCRASH is a multi-disciplinary research centre dedicated for solving real world structural impact and crash problems through the application of modelling & simulation techniques and to develop new approaches in material modelling.

RESOURCE PERSONS

Dr. Narendran Balan

Senior Manager - Boeing R&D Centre, Bengaluru

Mr. P Sundaresan

Distinguished Technologist - Infosys, Bengaluru

Dr. N Jayaraju

Subject Matter Expert - Airbus India, Bengaluru

Dr. Anand Venkatachari

Technical Manager - Tech Mahindra, Bengaluru

Dr. S Balasubramanian

Professor, Dept. of Metallurgical Engg, IIT (Madras)

Dr. K Ramajeyathilagam

Senior Professor, HITS, Chennai

Dr. V Arumugam

Professor, Dept. of Aerospace, MIT, Chennai

Dr. M Rameshkumar

Chief Scientist - NAL, Bengaluru

Dr. Vasanth Sastry

Scientist 'G' - ADE, DRDO, Bengaluru

Dr. Raghavendra Kulkarni

Scientist 'G' - URSC / ISAAC, Bengaluru

Dr. Ravishankar

Scientist 'F' - ADA, DRDO, Bengaluru

Dr. A P Beena

Scientist 'G' - VSSC, ISRO, Trivandrum

Dr. Ramdas

Scientist 'F' - R&DE Engineers, Pune.

Dr. K Senthilkumar

Professor, Dept. of Aerospace, MIT, Chennai

IMPORTANCE OF WORKSHOP

- To impart knowledge to aeronautical and aerospace professionals from industry, research organizations and students in various practical aspects of aerospace structural design (Aircraft, Space vehicles and UAV).
- Speakers for the workshop are from industries, research organizations and academic institution with a blend of theoretical knowledge and design aspects with case studies.
- Participants will be exposed to the fatigue test facility, Impact test facility, Hail-ice impact test facility available in the department, linear finite element analysis software (ANSYS) and non-linear finite element analysis software (LS DYNA) for bird-strike and hail ice impact problems.
- Workshop focuses in the direction to spread the analysis techniques for solving practical problems in the assessment of structural integrity.

Hands-on-sessions of Structural Analysis using LS DYNA and ANSYS

Demonstration of Hail Ice Impact Test, Bullet Impact Test and Fatigue Test

WHO SHOULD ATTEND

This workshop is primarily aimed for practicing engineers, faculty, researchers, UG/PG students and research scholars who are working / interested in the field of aerospace structural design.

PARTICIPATION CERTIFICATE WILL BE PROVIDED