

DAYANANDA SAGAR UNIVERSITY (DSU)

A top emerging university in Bengaluru, which has ideally positioned itself in providing value-based education, research and healthcare is now all set to take forward its 6 decades legacy of providing world-class quality education in its sprawling campus at Harohalli, Bengaluru. Being a completely self-contained campus at Harohalli, it is equipped with all the modern state-of-the-art infrastructure, creating a conducive environment for progressive experiential learning and futuristic growth creating next-generation innovators, explorers, leaders, and researchers.

DEPARTMENT OF AEROSPACE ENGINEERING

The Department of Aerospace Engineering (AE) - School of Engineering (SoE) at DSU focuses on the design, analysis, of aircraft and spacecraft followed by cutting-edge research on various aspects. The department trains the students with technical expertise, creativity, and problem-solving skills and plays a vital role in advancing in understanding of the universe.

Registrations

SCAN HERE FOR
REGISTRATION



Registration -

INR - 300/- per participant (Including GST)

Registration is mandatory for participation

Last date for Registration: 05-08-2023

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CHIEF PATRONS

Dr. D. Hemachandra Sagar, Chancellor, DSU
Dr. D. Premachandra Sagar, Pro Chancellor, DSU

PATRONS

Shri Galiswamy, Secretary, DSI
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Dr. Amit R Bhatt, Pro-Vice Chancellor, DSU
Dr. C. Puttamadappa, Registrar, DSU
Dr. Udaya Kumar Reddy K. R, Dean-SoE, DSU
Dr. M. K. Banga, Dean-Research, DSU

CONVENERS

Dr. B.V.N Ramkumar, Chairperson AE, DSU
Dr. Nagaraj, Professor, AE, DSU
Dr. Sharatkumar Variyar, Asso, Prof, AE, DSU

CO-CONVENER

Dr. Prashantha Kumar H G, Asst. Prof., AE, DSU
Mr. Sripad Kulkarni, Asst. Prof., AE, DSU

About FDP

The faculty development program on MBSE using the 3DEXperience platform encompasses a range of topics to ensure participants gain a comprehensive understanding of the Aero modelling. The program begins with an introduction to MBSE concepts, emphasizing the benefits of adopting a model-based approach. Participant's will learn about the different types of models used in MBSE through hands on experience



DAYANANDA SAGAR
UNIVERSITY

Bengaluru



SCHOOL OF ENGINEERING

A FIVE DAY NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAM ON MODEL-BASED SYSTEMS ENGINEERING (MBSE)

07-11 AUGUST, 2023

Organised by

**DEPARTMENT OF
AEROSPACE
ENGINEERING**



Objectives of FDP

- Familiarity with the 3D Experience platform
- Applying MBSE principles
- Integrating multidisciplinary aspects
- System Modeling Techniques
- Fostering research and innovation
- Application of MBSE in Real-world Scenarios

FDP Topics

1. Combining computational and experimental models in engineering structural dynamics
2. System identification methodologies using Convolutional Neural networks.
3. Digital lean manufacturing solution using DELMIA 3DEXperience platform.
4. Simulation-driven innovation in Aerospace Engineering
5. Introduction to 3DEXperience tool overview*
6. Introduction to MBSE
7. Demonstration of MBSE Process*
8. Rudder Actuator model using MBSE*
9. Enovia software 3D Experience platform*
10. Functional Architecture of Rudder Actuator*
11. Logical Architecture of Rudder Actuator*
12. Behaviour Modeling in Dymola*
13. Physical Architecture & Detailed Design*
14. Component Design and Integration*
15. Design Verification using MBSE*
16. Demonstration of Digital Mock-Up*
17. Evaluation Digital Mock-Up*
18. Industrial Expert Talk on MBSE
19. R&D Expert Talk on MBSE
20. Start up & Incubation

* Hands-on experience

Speakers

- Cmde. C D BALAJI, (Retd), Distinguished Scientist, Former Programme Director (Combat Aircraft) & Director, ADA, Government of India
- Dr. Manohar C S, Professor, IISc, Bangalore
- Mr. Ajay Mishra, Collins Aerospace, Bangalore
- Mr. Nikunj Manvar, Quantity Engineering Manager - R&D CATIA Systemes Modeling
- Mr. Sri Krishna, Dassault Systemes, Bangalore
- Mr. Mathurthi Murali Krishna Kumar, EDS Technologies Bangalore.
- Mr. Ramesh Kumar, KTech, CoE, Bangalore
- Mr. Madhushudan Rao, KTech, CoE, Bangalore
- Mr. Anoop karpur KTech, CoE, Bangalore
- Prof Sripad Kulkarni S, DSU, Bangalore.
- Mr. Ajo George, TUM, Switzerland
- Mr. Vinod Shankar, AIC-DSU

Technology Partners



Organising partners



For more details

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Who can participate

Open for Industry professionals, researchers, academicians, and scholars to expand their knowledge and skills in Model Based System Engineering (MBSE) using 3DEXperience platform for advancing their career to exploring new research avenues, this FDP is for you!

FDP Venue

Product Design Lab - T347
Dept. of Aerospace Engineering,
School of Engineering (SoE),
DSU, Kudlugar,
Hosur road, Bangalore - 68

