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

SCHOOL OF MECHANICAL ENGINEERING

INVITES YOU FOR

Value Added Program on
Modelling and Simulation Techniques in Additive Manufacturing
04-08-2025 to 08-08-2025

Experts

Mr. Anand V Pujari,
Education Account Manager, Autodesk – Bengaluru.
Mr. Amit Saxena,
Application Engineer, AMACE – Bengaluru.
Mr. Raunaq Dua,
Founder, CURIOSITY 3D – Delhi.
Mr. Dhanabal Arumugam,
Director, FABFORGE INNOVATIONS Pvt Ltd – Coimbatore.
Dr. Sree Sabari,
Guest Faculty, University of Coimbra
Dr Prasath Vijaykumar
Senior Software Consultant, USAM CADSoft India Pvt. Ltd
Dr. Sajan Kapil,
Asst Professor, IIT – Guwahati.
Dr. Pandithevan P,
Asst Professor, IITDM – Kancheepuram.
Dr. Ranjeet Kumar,
Asst. Professor, NIT – Kurukshetra.
Dr Geetha Manivasagam,
Dean, SHINE, VIT- Vellore
Dr. Yogendra Pratap Singh
Professor SHINE, VIT- Vellore
Dr. Renold Elsen S,
Professor, VIT – Vellore
Dr Suya Prem Anand P
Assistant Professor, VIT – Vellore

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ABOUT THE PROGRAM

COURSE OBJECTIVE
- ✓ To impart knowledge in modelling and simulation of emerging additive manufacturing technologies and applications in a variety of industries.
- ✓ Describe the advantages and limitations of each additive manufacturing technology.

COURSE OUTCOME
- ✓ Predicting the economic implications of additive manufacturing in businesses using various simulation tools
- ✓ Apply additive manufacturing simulation for time and cost savings.
- ✓ Evaluate real-life scenarios using FEA tools and recommend the appropriate use of additive manufacturing.

TOOLS TO BE TAUGHT
- FUSION (FDM Slicing, SLM Process Simulation, Lattice structures Design)
- CURA and CHITUBOX
- INK-SCAPE (Tool Path Generation)

TOPICS TO BE DISCUSSED
- ❖ INTRODUCTION TO ADDITIVE MANUFACTURING
- ❖ ASTM CLASSIFICATION ON ADDITIVE MANUFACTURING TECHNOLOGIES and DESIGN FOR AM.
- ❖ SLICING, DESIGN OF TOOL PATH MOVEMENT
- ❖ INTRODUCTION TO LATTICE DESIGN.
- ❖ MODELLING AND SIMULATION FOR POST PROCESSING
- ❖ REVERSE ENGINEERING.

TARGETED AUDIENCE
- ➢ UG, PG and Research Scholars

REGISTRATION DETAILS
Last date for registration :
VAP Registration Fee: INR 500.
Payment Link: https://events.vit.ac.in/
Registration QR CODE

VAP Certificates will be issued by AUTODESK

Sponsored by AUTODESK

VELLORE INSTITUTE OF TECHNOLOGY

Vellore Institute of Technology was founded in 1984 as Vellore Engineering College by the Founder and Chancellor Dr.G.Viswanathan. University status was conferred in 2001 by MHRD Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives.

Ranking & Accreditation

VIT has emerged as one of the best institutes of India and is aspiring to become a global leader. Quality in teaching-learning, research and innovation makes VIT unique.

- Engineering and Technology subject areas of VIT are the 142th best in the World and the 9 th best in India, and eight subjects of VIT are within the top 200 in the world (as per QS World University Rankings by Subject 2025)
- The 10th best University, the 13th best research institution and the 11th best engineering institution in India (NIRF Ranking, Govt. of India 2024).
- 2nd in India and 501-600 in the world (Shanghai ARWU Ranking 2024).
- NAAC Accreditation with A++ grade (3.66 out of 4).
- 396th in the world and 8th in India (QS World University Rankings: Sustainability 2025)

SCHOOL OF MECHANICAL ENGINEERING

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. Mechanical and Manufacturing Engineering are ranked in the top 8-10 in India and top 201-250 worldwide as per QS World University Rankings by Subject 2024. In Engineering and Technology "Mechanical Engineering" Specialisations are ranked within the top 501-600 in the world as per THE World University Ranking by Subject 2024.

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ADDITIVE MANUFACTURING SIMULATION CHALLENGE

09.07.2025

A 12 Hour Challenge for the Value-added Program participants

ABOUT THE CHALLENGE

PRIZE DETAILS

WINNER
INR 5000

RUNNER UP 1
INR 3000

RUNNER UP 2
INR 2000

- The Challenge will be held at the conclusion of the VAP course.
- Challenge Registration fee is Free for VAP Course participant
- Non-VAP Course participant must pay INR 300
- Payment link for challenge will be given in the VAP payment link.

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