



SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
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www.sathyabama.ac.in

SCHOOL OF MECHANICAL ENGINEERING

DEPARTMENT OF AERONAUTICAL ENGINEERING

1.3.3 Value-added courses for imparting transferable and life skills offered during 2022 - 2023

S. No.	Title	Event Dates	No. of students enrolled	No. of Students completed	Page No.
1	Practical Computational Fluid Dynamics	15.03.2023 to 21.03.2023	114	114	2
2	Fabrication of Heterogeneous Materials	06.09.2022 to 12. 09.2022	114	114	10
3	"AI & ML"-Next Generation Aerospace applications	20. 09.2022 to 26.09.2022	134	134	18
4	Continuing Airworthiness Management	02.02.2023 to 08.02.2023	163	163	26



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COURSE 1: PRACTICAL COMPUTATIONAL FLUID DYNAMICS



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY

Department of Aeronautical Engineering
School of Mechanical Engineering

&

OPTIMUZ TECH SERVICES



Organizes
AICTE Skill Development Program on
**PRACTICAL COMPUTATIONAL
FLUID DYNAMICS**



GANESH BALAJI

FOUNDER

OPTIMUZ TECH SERVICES, CHENNAI

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Assistant Professor, Aeronautical

Dr. Logeshwar Patnayak
Assistant Professor, Aeronautical



UG AERONAUTICAL STUDENTS
&
CFD ASPIRATEUR



15 Mar 2023
To
21 Mar 2023
6 Days



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Course Schedule

AICTE Funded SDP

Practical Computational Fluid Dynamics Schedule

March 15-21

15

9:00AM to 3.15 PM

Introduction to CFD

Conservation equation; mass; momentum and energy equations; convective forms of the equations and general description

16

9:00AM to 3.15 PM

Classification and Overview of Numerical Methods

Classification into various types of equation; parabolic elliptic and hyperbolic

17

9:00AM to 3.15 PM

Numerical Grid Generation

Numerical grid generation; basic ideas; transformation and mapping

18

9:00AM to 3.15 PM

Navier-Stokes Equations

Explicit and implicit methods; SIMPLE type methods; fractional step methods

20

9:00AM to 3.15 PM

Methods of Solution

Solution of finite difference equations; iterative methods; matrix inversion methods; ADI method; operator splitting; fast Fourier transform

21

9:00AM to 3.15 PM

Turbulence modeling

Reynolds averaged Navier-Stokes equations, RANS modeling, DNS and LES

Department of Aeronautical

Venue: IRC Auditorium



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AICTE SDP – “Fabrication of Heterogenous Materials” Course Syllabus

Course Outline

Computational fluid dynamics (CFD) has become an essential tool in analysis and design of thermal and fluid flow systems in a wide range of industries. A few prominent areas of applications of CFD include meteorology, transport systems (aerospace, automobile, highspeed trains), energy systems, environment, electronics, bio-medical (design of life support and drug delivery systems), etc. The correct use of CFD as a design analysis or diagnostic tool requires a thorough understanding of underlying physics, mathematical modeling, and numerical techniques. The user must be fully aware of the properties and limitations of the numerical techniques incorporated in CFD software. This course aims to provide precisely these insights of CFD.

Contents:

- Mathematical modeling: Governing equations of fluid flow and heat transfer;
- Introduction to discretization methods: Finite difference and finite volume methods for heat transfer problems;
- Time stepping methods for unsteady problems;
- Solution techniques for system of algebraic equations;
- Grid generation techniques;
- Solution techniques for Navier-Stokes equation; Finite element method for heat transfer and fluid flow problems;
- Turbulence modeling.

Course Outcomes:

Fundamental Understanding of Fluid Dynamics: Develop a comprehensive understanding of the fundamental principles of fluid dynamics, including conservation equations (mass, momentum, and energy), boundary layers, turbulence, and vorticity.

Numerical Methods Knowledge: Gain knowledge of numerical methods and algorithms used in CFD simulations, including finite difference, finite volume, and finite element methods, and understand their strengths and limitations.

Software Proficiency: Acquire proficiency in using CFD software tools and packages commonly used in industry and research, such as ANSYS Fluent, COMSOL, OpenFOAM, or others.

Mesh Generation: Learn how to create, refine, and manipulate grids or meshes for CFD simulations, and understand their impact on simulation accuracy and computational cost.



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Boundary Conditions: Understand and apply appropriate boundary conditions in CFD simulations, including inlet/outlet conditions, wall conditions, and far-field conditions.

Solver Selection and Setup: Gain the ability to select appropriate numerical solvers and set up CFD simulations for specific problems, such as steady-state or transient simulations, laminar or turbulent flows, and multiphase flows.

Modeling Turbulence: Learn how to model turbulent flows using techniques like the Reynolds-Averaged Navier-Stokes (RANS) equations or Large Eddy Simulation (LES) and understand the strengths and limitations of different turbulence models.

Verification and Validation: Understand techniques for verifying and validating CFD simulations, including grid independence studies and comparison with experimental data.

Post-Processing and Visualization: Develop skills in post-processing and visualizing CFD results, including contour plots, vector plots, and streamlines, and the interpretation of simulation data.

LIST OF STUDENTS PARTICIPATED

S. No.	Reg. Number	Student Name
1	41260001	AYUSH SRIVASTAVA
2	41260002	AGNES PRATHEDSHA JOHN J M
3	41260003	AJITH RAJKUMAR
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9	41260009	DANGETI SUBHASH
10	41260010	DHISHAN MERLIN P M
11	41260011	DHOBAL ROHAN RAJENDRA
12	41260012	MD DILSHAD ALAM
13	41260013	DINESH. V.G
14	41260014	EVELYN CASSENDRA F
15	41260015	FATHIMA SHADA A
16	41260016	HARINI R
17	41260017	D HARISH KUMAR



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18	41260018	JADHAV SAMIKSHA GAUTAM
19	41260019	JEBIK ARONE J
20	41260020	KALVA VENKATA TARUN KUMAR
21	41260021	N KATHIR
22	41260022	KEERTHIVASAN R
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37	41260037	POOJITHA DEEPAK
38	41260038	A. PRASANNA
39	41260039	PRIYANKA JASMINE PILLI
40	41260040	RAKESH C
41	41260041	RANIL. R.R
42	41260042	RISHON J
43	41260043	B RUPASHRI
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49	41260049	SATHIYANARAYANAN V
50	41260050	SESHAGANI VYSHNAVI
51	41260051	SHAMMA MUSARRAT



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52	41260052	SRIRAM M S
53	41260053	SUMAYA M
54	41260054	E SURENDER
55	41260055	THAJMAL HUSSAIN A
56	41260056	THARUN A
57	41260057	TUSHANT S
58	41260058	VARSHINI R
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64	41260064	DEEKONDA YASASRI VENNELA
65	41260065	M YOGESH
66	41260066	MOKSHAGNA GARIKINA
67	41260067	SAMYOJITHA NERALLA
68	41260701	HARI KESAVA MOORTHY K
69	41260951	MUSTAFA RAZA. T.K.S
70	41260952	ROHITH. A
71	39260001	ABILASH. S
72	39260002	AMAL. T
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87	39260018	MEDISETTI SURESH CHANDRA
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90	39260021	NISHWIN ABISHEK. K
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96	39260028	SAHAYA SUSMI. S. K
97	39260029	SAMEER TAJ SHAIKH
98	39260030	SANJAY SHARMA. R
99	39260031	SANJAY. V
100	39260032	SANTHOSH KUMAR
101	39260033	SEENU. G
102	39260034	SHALU KUMARI. S
103	39260035	SHEIK UMAR. J
104	39260036	SHIVAANI. V.S
105	39260037	SOMASUNDARESWARAN. A
106	39260038	SRI GANESH. H
107	39260039	SRIRAM. R
108	39260040	SUSIL JACKWYN KESHATH. S
109	39260041	TITTUS. V
110	39260042	VANGARA MADHAVI LATA
111	39260043	VARUNKUMAR. S
112	39260044	YERRA MADHU BABU
113	39260046	YUGENDRAN. R
114	39260048	GODAVARTHI VAMSIKRISHNA



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CERTIFICATE of Completion

This Certificate Is Presented To

Ayush Srivastava

Has Successfully Completed the AICTE Skill Development Program
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Convenor



Dean Mechanical



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COURSE 2: FABRICATION OF HETEROGENOUS MATERIALS



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Department of Aeronautical Engineering
School of Mechanical Engineering

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AERO HIGH TECH

Organizes
AICTE Skill Development Program on
FABRICATION OF
HETEROGENOUS MATERIALS



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Assistant Professor, Aeronautical

Dr. Logeshwar Patnayak
Assistant Professor, Aeronautical



UG AERONAUTICAL STUDENTS



06 Sep 2022
To
12 Sep 2022
6 Days



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AICTE Funded SDP

Fabrication of Heterogenous Materials Schedule

September 06 - 12

06

9:00AM to 3.15 PM

Fundamentals of Composites

Engineering Applications of Composite Materials.

07

9:00AM to 3.15 PM

Primary Manufacturing Processes for Composites

Open Molding, Closed Molding & Cast Polymer Molding

08

9:00AM to 3.15 PM

Secondary Manufacturing Processes for Composites

"Taped" or "Tabbed" together with wet-laid material

09

9:00AM to 3.15 PM

Mechanics of Composites

Mechanic repairs and replacing the composites components of
Aircrafts

10

9:00AM to 3.15 PM

Meanfield Homogenisation for Composite Materials

RVE Analysis for calculation of effective composite properties

12

9:00AM to 3.15 PM

Structure Health Monitoring of Composites

An Acoustic Emission (AE) based Smart Composite Fastener (SCF)

Department of Aeronautical

Venue: Aero CAD Lab



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AICTE SDP – “Fabrication of Heterogenous Materials” Syllabus

Course Overview

Composites have large-scale commercial applications in marine applications, aerospace, automotive, marine, sporting goods, infrastructure, energy storage, biomedical etc. In recent years, the development of new and improved composite manufacturing processes has led to limitless product development opportunities. The subject of manufacturing will be dealt within the framework of composite materials. The design portion includes an explanation of the concepts involved in the detailed design analysis of composites.

Topics

- Fundamentals of Composites
- Engineering Applications of Composite Materials.
- Primary Manufacturing Processes for Composites
- Secondary Manufacturing Processes for Composites
- Mechanics of Composite Materials
- Meanfield Homogenisation for Composite Materials (RVE Analysis for calculation of effective composite properties)
- Structure Health Monitoring of Composites

Course Outcome

Understanding of Composite Materials: Students should gain a solid understanding of what composite materials are, including the types of materials involved, their properties, and their advantages and disadvantages.

Material Selection: The ability to select appropriate materials for specific applications, taking into consideration factors like strength, weight, durability, and cost.

Understanding Manufacturing Processes: Familiarity with various manufacturing processes used in fabricating composite materials, including layup techniques, infusion, autoclave curing, and compression molding.

Composite Material Design: The capacity to design composite structures and components to meet specific performance requirements, considering factors like stress analysis, load-bearing capacity, and safety factors.

Hands-On Skills: Proficiency in the practical skills required for the fabrication of composite materials, which may include cutting, layering, curing, and post-processing techniques.

Case Studies and Applications: An understanding of real-world applications of composite materials in various industries, such as aerospace, automotive, marine, and construction.



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99	39260031	SANJAY. V
100	39260032	SANTHOSH KUMAR
101	39260033	SEENU. G
102	39260034	SHALU KUMARI. S
103	39260035	SHEIK UMAR. J
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CERTIFICATE of Completion

This Certificate Is Presented To

Hari Kesava Moorthy

Has Successfully Completed the AICTE Skill Development Program
" FABRICATION OF HETEROGENOUS MATERIALS "

Convenor



Dean Mechanical



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COURSE 3: AI & ML NEXT GENERATION AEROSPACE APPLICATION



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Department of Aeronautical Engineering
School of Mechanical Engineering

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TITUS BENJAMIN

FOUNDER

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Chancellor

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Assistant Professor, Aeronautical

Mr. P. Gunasekar
Assistant Professor, Aeronautical



UG AERONAUTICAL STUDENTS



LIBRARY PRESENTATION HALL



20 Sep 2022
To
26 Sep 2022
6 Days



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SDP

AI & ML – New Generation Aerospace application

Schedule

September 20 - 26

20

9:00AM to 3.15 PM

Computer Systems Studio

Engineering Applications of Composite Materials.

21

9:00AM to 3.15 PM

Computer Systems /Digital Media Portfolio Defence

Fundamentals of Visual Communication

22

9:00AM to 3.15 PM

Applied Data Analysis & Tools

Survey of Machine Learning & Autonomous Systems

24

9:00AM to 3.15 PM

Introduction to Automata & Cybernetic Systems Theory

Data Structures for Machine Learning

25

9:00AM to 3.15 PM

Unsupervised Learning in Autonomous Systems

Picking and placing of items using autonomous systems

26

9:00AM to 3.15 PM

Supervised Learning in Autonomous systems

Reinforcement Learning in Autonomous Systems, Autonomous Systems Senior Capstone

Department of Aeronautical

Venue: Central Library
Presentation Hall



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SDP – “AI & ML”- Next generation Aerospace application Syllabus

COURSE CONTENT

- Computer Systems Studio
- Computer Systems /Digital Media Portfolio Defence
- Fundamentals of Visual Communication
- Applied Data Analysis & Tools
- Survey of Machine Learning & Autonomous Systems
- Introduction to Automata & Cybernetic Systems Theory
- Data Structures for Machine Learning
- Unsupervised Learning in Autonomous Systems
- Supervised Learning in Autonomous Systems
- Reinforcement Learning in Autonomous Systems
- Autonomous Systems Senior Capstone

COURSE OUTCOME

Understanding of AI and ML Fundamentals:

Develop a strong foundation in the fundamental concepts and techniques of AI and ML.

Aerospace Industry Context:

Gain an understanding of how AI and ML are applied in the aerospace industry, with a focus on real-world applications and challenges.

Data Preprocessing and Feature Engineering:

Learn how to preprocess and clean data relevant to aerospace applications. Develop skills in feature engineering to extract meaningful information from raw data.

Supervised Learning:

Understand and apply various supervised learning algorithms, such as regression and classification, to solve aerospace-related problems.

Unsupervised Learning:

Learn about clustering and dimensionality reduction techniques and apply them to aerospace data for pattern recognition and anomaly detection.

Deep Learning:

Explore neural networks, convolutional neural networks (CNNs), and recurrent neural networks (RNNs) for tasks like image processing, natural language processing, and time-series analysis.

Reinforcement Learning:

Study reinforcement learning techniques and their applications in aerospace, including autonomous navigation and control.



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Has Successfully Completed the Skill Development Program
" AI & ML - NEW GENERATION AEROSPACE APPLICATION "

Convenor



Dean Mechanical



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COURSE 4: CONTINUING AIRWORTHINESS MANAGEMENT



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Department of Aeronautical Engineering
School of Mechanical Engineering

Organizes Skill Development Program on CONTINUING AIRWORTHINESS MANAGEMENT



ABRAHAM NISHANTH NELSON

CUSTOMER MANAGER

MAINTENANCE AND RETROFIT ENGINEERING, AIRBUS, FRANCE

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IRC AUDITORIUM



02 Feb 2023
To
08 Feb 2023
6 Days



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SDP

Continuing Airworthiness Management

Schedule

February 02 - 08

02

9:00AM to 3.15 PM

Make Safety a System

Framework, Regulatory requirements and safety culture

03

9:00AM to 3.15 PM

SMS Integration

Organizational structure, accountabilities and policies

04

9:00AM to 3.15 PM

Modelling Risk

Distinguish between Threat, Hazard and Consequence

06

9:00AM to 3.15 PM

Hazard Identification

Definition of Threats, Hazards and Consequences

07

9:00AM to 3.15 PM

Bow Tie Model

Development of Bow Tie Model

08

9:00AM to 3.15 PM

Bow Tie Case Studies

The group develops bow tie model on flip chart

Department of Aeronautical

Venue: IRC Auditorium



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SDP – “CONTINUING AIRWORTHINESS MANAGEMENT” Syllabus

COURSE CONTENT

Module RAT01: Make Safety a System		
<i>Note: Presentation of generic SMS risk management process and safety culture definition, may be adapted to customer specific process and definition on request</i>		
Objectives	Contents of Module	Practical Training/Discussion
Objective 1: Understand the context and drivers of a Safety Management System Objective 2: Differentiate existing safety management organization and new elements of an SMS Objective 3: Understand the value of an SMS in an MRO environment	Framework: - Definition of Safety, Risk and Risk Assessment - Concept of a Safety Management System - SMS Risk Management Process	Group discussion on “what is safety, risk and risk assessment?”
	Regulatory Requirements: - ICAO Standards and Reference Documents - SMS Definition	
	Orientation & Safety Culture: - Reactive, proactive and predictive Safety Measures - Safety Culture Definition and Characteristics	Group discussion on “meaning of safety culture?”

Module RAT02: SMS Integration		
<i>Note: Presentation of a generic SMS implementation and risk assessment tools (safety risk evaluation, safety review, event risk classification), may be adapted to customer specific implementation and tools on request</i>		
Objectives	Contents of module	Practical Training/Discussion
Objective 4: Learn how to integrate a SMS in the organization	Integration of a SMS: Integration according to SMS definition	
Objective 5: Understand the structure of the Safety Review Board	Organizational Structures: - Structure of Safety Review Board - Functions of each element	Discussion on “Organisational impact of SMS implementation”



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Objective 6: Get to know the roles and responsibilities	Accountabilities: Roles and responsibilities in an SMS	
Objective 7: Understand the meaning of the safety policy	Policies: - Safety Policy requirements - No blame policy - Integration of existing policies	
Objective 8: Distinguish between different risk assessment tools	Processes: - Processes required for an SMS - The Management of Change	

Module RAT03: Modeling Risk

Objectives	Contents of module	Practical Training/Discussion
Objective 9: Distinguish between Threat, Hazard and Consequence	Hazard Identification: - Definition of Threats, Hazards and Consequences - Documentation of Hazards	Group Activity "what is a threat, hazard, consequence?" (Flipchart)
Objective 10: Show methods and tools for Hazard Identification	Bow Tie Model: Development of Bow Tie Model	Group Activity "develop bow tie model for specific risk"
Objective 11: Develop a Bow Tie Model in the group	Bow Tie Case Studies: Practical example	The group develops bow tie model on flip chart



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(DEEMED TO BE UNIVERSITY)

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SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

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