

ONE YEAR POST GRADUATION COURSE & ON JOB TRAINING ON DESIGN, ANALYSIS AND MANUFACTURING TECHNOLOGIES FOR AEROSPACE, AUTOMOBILE, MECHANICAL & ALLIED ENGINEERING DISCIPLINES



Ministry of Micro, Small and Medium Enterprises,
Government of India

Jointly Offered by
MSME TOOL ROOM-KOLKATA
(Central Tool Room and Training Centre)
Ministry of MSME, Govt. of INDIA
and
DSN AEROSPACE CONSULTANTS PVT. Ltd.
(Kolkata, West Bengal)



Course Content

1. Structural Design & Hand calculation of Passenger Aircraft, Fighter Aircraft and Launch Vehicle structure.
2. 3D Modeling, 2D Drafting of Complete Aircraft structure, Mechanical structures. Design Philosophy and Industrial design Practices. (Software: **UG/NX10**)
3. CFD Analysis in ANSYS ICEM & CFX for Wing Aerofoil Structure and complete Aeroplane. (Software : **ANSYS**)
4. 3D Printing Technology
5. Finite element analysis of Mechanical structures in **MSC Nastran & Patran**
6. Composite design of engineering structures
7. Fatigue failure analysis of Aircraft & Automobile structure using the following methods-
 - S-N Method
 - E-N Method
 - Fracture Mechanics method
8. Hands on experience on CNC Machines Understanding CNC programming and carrying out live projects.
9. Experimental validation of stress results
10. Machine Learning in Aerospace and Mechanical Engineering. Solving real life industrial problems with machine learning applications.
11. Health Monitoring of Aerospace/ Drone structure with Optic fiber based sensor system.
12. IOT Based applications and practical demonstration.
13. Aerospace Telemetry Signal processing system
14. Gyroscope based flight stability system

Notes :

1. Full course brochure can be downloaded from the link <http://dsnaerospace.com/index.php/courses/pg-cum-on-job-training-for-engineers/>
2. A minimum of 60% marks is required from class X onwards as an eligibility criteria for admission into the course.
3. The course is a two semester Post graduation program. 60% marks in the exam conducted at the end of first semester will qualify a student to be enrolled into second semester.
4. The course, being an on job training program, mandates a student to work on ongoing projects in MSME and DSN Aerospace. The Student will get an one year Job Experience certificate at the end of the program.
5. Visit to industries pertaining to Aerospace and Automobile field will be arranged by MSME Kolkata.
6. Industry experts from Aerospace and automobile fields will visit MSME Kolkata facility as guest lecturers.
7. MSME Kolkata and DSN Aerospace will ensure full job assistance to students enrolled for the program.
8. Fee per Semester is Rs 40000. Hostel facilities are available for outstation students at an additional cost.
9. All classes will be held at MSME Kolkata Facility.
10. Registration for the course is to be done at www.dsnaerospace.com. New batches starts from 1st January and 1st July Every year.
11. Send your queries at niloyghosh@dsnaerospace.com
Call us at : +91 9008418527