CENTRE OF EXCELLENCE IN AEROSPACE & DEFENCE (COE A&D)

Aerospace and Defence (A&D) industry in India is one of the fastest growing markets in the world. A&D-manufacturing sector in India is also on the cusp of exponential growth given focus of Government of India on indigenous manufacturing. Growth of the sector depends largely on the availability of **Industry Ready Engineers/Professionals,** who can be leveraged for project deployment with minimal on-the-job training. Keeping this in view, the Karnataka Innovation & Technology Society (**KITS**), a Government of Karnataka (**GoK**) enterprise along with Visvesvaraya Technological University (**VTU**) in association with Dassault Systems India Pvt. Ltd., (**DS**) has established a Centre of Excellence in Aerospace & Defence (**COE A&D**) with the objective of **Skill Enhancement** and providing Industry with trained manpower to a thriving Aerospace industry both in Karnataka and other areas.

DOMAIN EXPERTS

CD Balaji

Chairman,
Centre of Excellence, A&D
Brief Profile:

- Former Programme Director (Combat Aircraft) & Director, **ADA**
- Project Director of Naval version of Light Combat Aircraft **(LCA Navy)**
- 28 Years in the Indian Navy

Dr. K Badari Narayana

Subject Matter Expert,
Centre of Excellence, A&D
Brief Profile:

- Scientist & Dy. Project Director, Structures Division of **ISRO** Satellite Center
- Engineering Manager and R&D Specialist, Goodrich Aerospace Services **(UTAS)**

HRS Prasad

Subject Matter Expert,
Centre of Excellence, A&D
Brief Profile:

- General Manager, ARDC, **HAL**
- Consultant for **ADA**
- 39 years in **HAL**

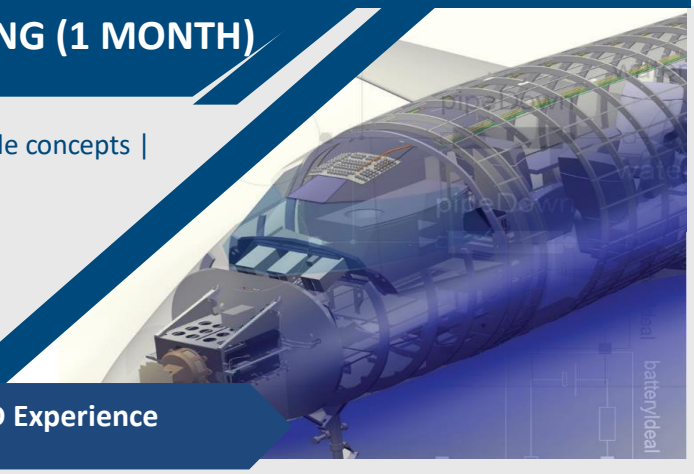
Ramesh Kumar P

Subject Matter Expert,
Center of Excellence, A&D
Brief Profile:

- Chief Manager, Aircraft Design Bureau, **HAL**
- Consultant for FCS and Hydraulic Systems, **NAL**
- Training Faculty **Jet Airways**

KITS and Dassault Systems-3D Experience are making an effort to bridge the gap between the Technical Institutions and the Challenges faced by the Aerospace Industry and striving to Make in India and Skilled India vision a reality.

FOUNDATION COURSE IN AEROSPACE ENGINEERING (1 MONTH)



Overview in Aerodynamics/Flight Mechanics | Overview of space vehicle concepts | Launch Vehicles and Payloads, Structures | Layout & Configuration And Materials, Mechanical Systems | FCS/Hydraulics/Landing Gear/ Environmental Control System, Reliability | Quality Assurance & Certification | Avionics | Electrical, Tooling & Manufacturing | Software Lab covering Design, Analysis, Simulation & Manufacture

Introduction to A&D Domain: Hands on Training on 3D Experience

ADVANCED COURSE IN AEROSPACE ENGINEERING (4 MONTHS)

Requirement Capture | Building Concept Model | Definition of Product Structure | Configuration Management | Introduction to Numerical Master Geometry (NMG) | Aerodynamics & Aircraft Configuration | Computational Fluid Dynamics (CFD) | Ergonomics Studies | Structural Design & Analysis | Modeling & Simulation | Typical Design & Analysis |Typical Design of Landing Gear | Electrical & Mechanical systems Design| Manufacturing | Assembly | Integration and Testing

Details of A&D Domain & Value Stream Based Training in 3D Experience

HIGHLIGHTS

- Orientation (3 Days)/Awareness (1 day) Courses conducted at college premises
- Guest Lectures from Industry Experts from ISRO, ADA, HAL, DRDO, Pvt. Sector ..
- Incubate Startups & encourage R&D
- Industrial /R&D Facility Visits

Other Courses

- 8th Semester Project Oriented Course
- 2 or 3 Weeks Value Stream Oriented Courses – Machined Part, Sheet Metal, Composites, Electrical Harness, Tubing, MBSE, 3DExperience Simulation & Abaqus, Ergonomics, Manufacture
- 2 days Workshops on Specific Software

Industry Specific Training by Experts, Hands on Experience on State-of-the-Art Software Infrastructure *taking you through a Holistic* Design & Development process up to Digital Manufacturing, thereby *Making you Job ready / Employable*

A Never Before Opportunity to the Students and Industry alike providing a Unique Opportunity for Skill Enhancement and Innovation

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