

## IJAEM

IJAEM is a collaborative venture between Jain University, SIATI, and leading Aerospace organizations, an initiative never attempted by other Universities. IJAEM has received overwhelming support from academic institutions, R&D laboratories and reputed organizations - like ISRO, HAL, AAI, NAL, Air India, Jet Airways, BIAL, CIAL and many others. Besides involving itself in cutting edge research, the Institute is striving to generate a pool of technical manpower skilled in Aircraft Design, Avionics, Aircraft Maintenance Engineering, Airport Infrastructure & Aviation Management at the UG, PG and Research levels. Within the next few years, the IJAEM is poised to develop into a world-class institution for aerospace research and education.

## SIATI

The Society of Indian Aerospace Technologies & Industries (SIATI) has made pioneering efforts in bringing industry, R&D centres both in India and abroad together to enhance self-reliance in aerospace technology and manufacturing. In addition to major aerospace players it has now about 300 small, medium and large scale private industries engaged in development and manufacture of aircraft structures, systems/equipment.

*Please send your nominations to*

Mr. Naveen S.

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A Three-day Short Course on

# Aircraft Structural Assemblies



Jointly organized by

International Institute for Aerospace Engineering  
and Management (IJAEM)

IJAEM

JAIN UNIVERSITY  
Declared as Deemed-to-be University u/s 3 of the UGC Act 1956



and

Society of Indian Aerospace Technologies  
and Industries (SIATI)

from

25<sup>th</sup> to 27<sup>th</sup> July, 2013 from 9 AM to 5 PM

Venue:- Aeronautical Society of India, Suranjandas Road &  
Old Madras Road Junction, (Opp. to HAL Engine Division &  
near to Byappanahalli Metro Station) Bangalore - 560 075

## Course Coordinators

**Air Cmde. (Retd.) J. Varkey**, Formerly CRE (Aircraft) Directorate of Aeronautics, Ministry of Defence and Hony. Secretary General, SIATI

**Shri. K.S. Rajasekharan**, Expert in Aircraft Structural Assembly and CEO, Alpha Tocol Engg. Services Pvt. Ltd

**Shri. Ashok Kumar Sood**, Specialist Consultant, National Civil Aircraft Development Project, CSIR, NAL

**Shri. K.V. Prasad**, Chief Manager (Methods), Aircraft Division, HAL

## About the workshop

The objective of the Aircraft structural assembly workshop is to expose the practice of carrying out the assembly operations which are crucial in any aircraft production plan. The topics cover materials & properties, rivets, bonding, welded assemblies, tools & equipments, inspection procedures & quality assurance and applications on structures.

## Faculty

Knowledge and expertise will be shared by the experts from Aerospace / Aircraft manufacturing industries, structural assembly, structural design & testing, fabricating / suppliers of jigs & fixtures & tools for aircraft structural assembly, inspection & testing, research & development laboratories, and academicians.

## Who would benefit

- Scientists and Engineers associated with the design, development, manufacturing & testing of the Aircraft / Helicopter.
- Faculty and students from Institutes offering courses in Aeronautical / Aerospace and Aircraft Maintenance Engineering.

## Registration Fee per Participant

Corporate ----- : ₹ 8,000/-  
Academic, R&D Labs & Govt. Orgns : ₹ 6,000/-  
Students ----- : ₹ 3,000/-

Fee discount can be availed for a group of 5 participants

(Registration fee includes participation fee, tea/coffee, working lunch & lecture material. The registration form along with DD / Cheque drawn in favor of 'IIAEM', Bangalore should reach our office before 22<sup>nd</sup> July, 2013).

## Program Content

1. Introduction to Aircraft Structural Assemblies (fuselage, wings, tail plane, radar, elevators etc.)
2. Materials and properties (aluminum alloys, steel and high temperature alloy sheets, composites, plastics)
3. Welded assemblies, bonded assemblies, riveted assemblies
4. Types of rivets and applications
5. Bonding materials, process for bonded structures
6. Welding processes for welded structures
7. Assembly jigs, tools and equipments
8. Interchangeability - ICY media
9. Sealing compounds and applications on structures
10. Inspection procedures and quality assurance

