

Jr. DIPLOMA IN AERONAUTICAL ENGINEERING



**ADVANCED SOLUTIONS
TECHNICAL INSTITUTE**

Fostering science and technology

LIPS



RESEARCH
The Craft Coordinate Research

LIPS Research & DL
Centre for Advanced
Research & Development



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Pedagog

JR. DIPLOMA IN AERONAUTICAL ENGINEERING

Industry Certified Course by LIPS RESEARCH & DL Centre
for Advanced Research & Development

The course is designed to deliver the fundamentals of air vehicles, classification, its components and construction and concept behind propulsion of aircraft.

Junior Diploma courses were set up as part of a skill development mission to fulfil the growing need across the globe for skilled manpower across sectors and narrow the existing gap between the demand and supply of skills.

There is a compelling need to launch a world-class skill development course in a mission mode that will address the challenge of imparting the skills required by a growing economy. Thereby our JUNIOR DIPLOMAS are designed in such a way, that a very beginner can take up the course and become an expert in that domain. Our diploma programmes can be taken by a 10-year kid and the same is not restricted to a 60-year-old learner.

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blockchain education](#)

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**“An
investment in
knowledge
pays the best
interest”
Benjamin
Franklin**

The programme structure enables the students to:

- Observe the basic concepts of aerospace engineering.
- Describe the concept of flying instrument and flying.
- Define Structural aspects of Space and fly vehicle.
- Discuss the power plants used in aviation and space engineering.
- Discuss the concepts of rotor craft.

Junior Diploma in Aeronautical Engineering Industry Certified Course by DLCARD - India

Course Objective

1. Observe the basic concepts of aerospace engineering
2. Describe the concept of flying instrument and flying
3. Define Structural aspects of Space and fly vehicle
4. Discuss the power plants used in aviation and space engineering
5. Discuss the concepts of rotor craft

Unit I- Fundamentals of Aircraft and Flying Concepts

International Standard Atmosphere, solar system, Kepler's Laws, Asteroids and Meteoroids, Early air vehicles and its classifications, concept of biplanes and monoplanes,, regions of sound

Unit II- Flight Vehicle Components & System

Components of an airplane and their function, basic instruments for flying and its operating principle, Types of Primary and secondary control surface, Aircraft pressurization and air conditioning,

Unit III- Fundamentals of Flight

Newton's Law for flying and its mathematical concept, Airfoils, Nomenclature of airfoil and NACA series, concept of Aerodynamic forces, Endurance and ceiling,

Unit IV- Fly Vehicle Construction

General types of fly vehicle construction, Typical fuselage structure, wing arrangements and wing construction ,fixed and rotary Wing configuration.

Unit V- Aerospace Power Plant

Basic ideas about piston engine, concept of Propeller, Operating Principle of propeller, Propeller classifications, working principle of jet engines.

Unit VI- Concept Of Rotorcraft

Classification rotorcraft, components of rotorcraft, gyroplane, helicopter, stability concept of gyroplane, Flying concept of compound helicopter ,hovering turn,

*For queries or training in bulk including live training sessions contact
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CERTIFICATION BY



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