

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Aerospace Engineering - NOC:Aircraft Design

Subject Co-ordinator - Dr. A.K. Ghosh

Co-ordinating Institute - IIT - Kanpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction
Lecture 2 - Wing Loading and Thrust Loading
Lecture 3 - Basic Design - Lift and Drag
Lecture 4 - Range and Endurance
Lecture 5 - Mission Requirements
Lecture 6 - Range and Endurance
Lecture 7 - Fuel Consumption
Lecture 8 - L/D for Maximum Range and Endurance
Lecture 9 - Range and endurance for Jet-driven Aircraft
Lecture 10 - Estimation of Fuel for a Mission
Lecture 11 - Design Considerations
Lecture 12 - Design Considerations
Lecture 13 - Design Considerations
Lecture 14 - Wing Design
Lecture 15 - Wing Design
Lecture 16 - Wing Design
Lecture 17 - Wing Design
Lecture 18 - Wing Arrangements
Lecture 19 - Tail Arrangements
Lecture 20 - Tail Arrangements (Continued...)
Lecture 21 - Aircraft Structure
Lecture 22 - Wing Loading and Power Loading
Lecture 23 - Thrust Loading and Wing Loading
Lecture 24 - Thrust Loading
Lecture 25 - Wing Loading
Lecture 26 - Wing Loading
Lecture 27 - Take off
Lecture 28 - Take off
Lecture 29 - Wing Loading

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- Lecture 30 - Revision (Wing Loading and Thrust Loading)
- Lecture 31 - Numerical
- Lecture 32 - Wing Loading
- Lecture 33 - Stability Considerations
- Lecture 34 - Static Stability Basics
- Lecture 35 - Wing and tail contribution to Longitudinal Static Stability
- Lecture 36 - Conceptual Design
- Lecture 37 - Conceptual design (Continued...)
- Lecture 38 - Elevator Effectiveness
- Lecture 39 - Elevator Effectiveness (Continued...)
- Lecture 40 - Numerical - Pitching moment
- Lecture 41 - Numerical - Elevator Effectiveness
- Lecture 42 - Aircraft Maintenance Guidelines
- Lecture 43 - Inspection for Aircraft
- Lecture 44 - Numerical of Weight Fraction
- Lecture 45 - Inspection of Sinus 912 Motor Glider
- Lecture 46 - Numericals