AV 235 : HUMAN FACTORS

Transcript title

Human Factors

Credits

4

Grading mode

Standard letter grades

Total contact hours

40

Lecture hours

40

Course Description

An introduction to the field of human behavior and characteristics as critical factors in the design and operation of electronic/machine systems. Emphasis is on crew resource management and human factors, including the study of human performance in complex systems with an examination of personality, stress, anxiety, fatigue, communication skills, decision-making, situational awareness, analysis of aviation and accidents, and practical application of human factors and performance to modern aviation.

Course learning outcomes

The student will lean human behavior and characteristics as critical factors in the design and operation of electronic/machine systems.
Student will comprehend crew resource management and human factors, including the study of human performance in complex systems with an examination of personality, stress anxiety, fatigue, communication skills, decision-making, situation awareness, analysis of aviation incidents and accidents, and practical application of human factors and performance to modern aviation.

Content outline

Basic Concepts and Human Factors Overview The Human In Flight; Physiology Sensory Systems Human Factors in Maintenance Information Processing Managing Workload Avoiding and Managing Error Organizational Perspectives Safety Systems Human Behavior and Decision Making Fatigue and Performance Crew Resource Management Advanced Cockpit Automation

Required materials

Requires textbook and/or online learning materials.