

Introducere in inginerie aerospatalia

Introduction to Aerospace Engineering

Obiectiv principal

Contribuie la formarea viitorilor ingineri de profil aerospatal, familiarizându-se cu limbajul specific aviatiei si aeronauticii, de a da studentilor informatiile necesare pentru a intelege modul de gandire in proiectarea si exploatarea unui aparat de zbor.

Course Objective

Contributes to the formation of future aerospace engineers familiar with aeronautical and aeronautical language to provide students with the information they need to understand how to think about designing and operating a flight instrument.

Curs

1 ora pe săptămână, total 14 ore

- Clasificarea masinilor aeriene si spatiale: Baloane, planoare, avioane, helicopter, sateliti si rachete.
- Regulamente si instrumente de proiectare: Regulamente nationale si internationale, proiectare clasica, calculatoare si programe, tunele aerodinamice, incercari in zbor.
- Parti componente si comenzi avioane: Aripa fuselaj, ampenaje, tren de aterizare, mansa paloniere, comanda motor.
- Structura de rezistenta aripa: Structura grinda cu zabrele, longeroane, lise, nervuri, invelis, structuri integrate.
- Structura de rezistenta fuselaj: Coca, monococa, semimonococa, cadre, lise, longeroane, struturi integrate.
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Course

1 hour weekly, total 14 hours

- Classification of air and space vehicles: Balloons, gliders, planes, helicopters, satellites and missiles.
- Design regulations and instruments: National and international regulations, classical design, computers and programs, aerodynamic tunnels, flight tests.
- Aircraft components and controls: Fuselage wing, amplitudes, landing gear, throttle handle, engine control.
- Structure of the wing strength: Structure of the beam with blades, long-haired, flat, ribbed, envelope, integrated structures.
- Structure of fuselage resistance: Coca, monocoque, semimonococcus, cadre, lyses, longhairs, integrated structures.
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Seminar

1 ora pe săptămână, total 14 ore

- Prezentarea diferitelor configuratii de planoare, avioane, rachete.
- Regulamente nationale si internationale, unitati de masura folosite in aviatie.
- Prezentarea partilor componente ale avionelor.
- Prezentare aparatura de bord.

Seminar

1 hour weekly, total 14 hours

- Presentation of various configurations of gliders, planes, missiles.
- National and international regulations, units of measurement used in aviation.
- Presentation of component parts of airplanes.
- Presentation of instrumentation.