



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

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|------------------------------|--|---|--|
| Study Program | Mechanical Engineering | | |
| Study Module (if applicable) | - | | |
| Course Title | Transport Aircraft | | |
| Level of Study | <input checked="" type="checkbox"/> Bachelor | <input type="checkbox"/> Master's | <input type="checkbox"/> Doctoral |
| Type of Course | <input type="checkbox"/> Obligatory | <input checked="" type="checkbox"/> Elective | |
| Semester | <input type="checkbox"/> Autumn | <input checked="" type="checkbox"/> Spring | |
| Year of Study | IV | | |
| Number of ECTS Allocated | 5 | | |
| Name of Lecturer/Lecturers | Ljubiša S. Vasov | | |
| Teaching Mode | <input checked="" type="checkbox"/> Lectures | <input checked="" type="checkbox"/> Group tutorials | <input checked="" type="checkbox"/> Individual tutorials |
| | <input type="checkbox"/> Laboratory work | <input type="checkbox"/> Project work | <input type="checkbox"/> Seminar |
| | <input type="checkbox"/> Distance learning | <input type="checkbox"/> Blended learning | <input checked="" type="checkbox"/> Other |

Purpose and Overview (max. 5 sentences)

Introduction to the aerodynamics of airplane flight, basic structural elements and systems of transport aircraft, flight performances of transport aircraft, characteristics of the transport aircraft operation and the basic elements of the air traffic system. The course is referred to the interpretation of the transport aircraft performances, in the air traffic system operation.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) Principles of airplane flight and aircraft classification, 2) Standard atmosphere, 3) Basic elements of aerodynamics, 4) Geometry of the lifting surfaces and aerodynamic characteristics of the transport aircraft, 5) Structure and construction of the transport aircraft, 6) Aircraft systems and their functions, 7) Aircraft engines, 8) Basic flight performances of the transport aircraft, 9) Techno-economic indicators of the transport aircraft operation efficiency, 10) Elements of transport aircraft maintenance, 11) Civil aviation organization, regulatory bodies and review of the air transport regulations, 12) The basic principles of the transport aircraft safety.

Language of Instruction

Serbian (complete course) English (complete course) Other _____ (complete course)

Serbian with English mentoring Serbian with other mentoring _____

Assessment Methods and Criteria

| Pre exam Duties | Points | Final Exam | Points |
|-----------------|--------|------------|--------|
|-----------------|--------|------------|--------|

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|---|-----------|----------------------------|------------|
| Activity During Lectures | 10 | Written Examination | 20 |
| Practical Teaching | | Oral Examination | 10 |
| Teaching Colloquia | 60 | Overall Sum | 100 |
| *Final examination mark is formed in accordance with the Institutional documents | | | |