

Safety Engineering in Aviation

Subject area: Business/management

University:	CTU
Level:	MA all years, PhD
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	Andrej Lališ

Short description

The course is focused on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety management. Students will learn explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.

Full description

The course is dedicated to master level students who wish to obtain specific knowledge of safety engineering. Theoretical part includes general safety engineering principles and methods how to determine, whether a product or service is safe or will be safe in operations. Practical part focuses on aviation safety management, its standards and recommended practices that are based on safety engineering principles. Students will learn and apply different techniques on real scale industrial problems and understand, what types of problems can be resolved by them. They will also learn new experimental techniques under development today, that will ensure safety of future systems, such as autonomous vehicles and aircraft, human missions to the universe etc.

Learning outcomes

1. Understand the issue of safety
2. Assess new product/system for safety
3. Manage safety in everyday operations
4. Explain and follow-up safety occurrence
5. Practical details of aviation safety

Recommended in particular for students of the following study programmes

Aerospace, Aviation-related programs

General information

Contact hours per week:	4
Total workload:	100 (in student hours for the whole course)
ECTS credits:	4
Language:	English

Course start date:	20 February 2023
Course end date:	28 May 2023
Add. info about start date:	Start course date refers to starting date of spring semester at CTU. Schedule will be available 1 or 2 weeks before semester starts.

Weekly teaching day/time:

Time zone:	CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)
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Further information:	Lessons will be recorded and provided to students
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Prerequisites:	not specified
Activities and methods:	Lectures, Exercises
Presence on campus:	

Final examination

Form:	oral
Date:	
Location/format:	
Re-sit possibility:	yes
Transcript available:	end of semester
Add. info/requirements:	

Registration

To register for this course, follow the registration requirements of your **home university** as specified here: www.euroteq.eu/courses-registration.

Administration

Number of places:	15
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Minimum participants: not specified
Internal course code: 21BILD
Contact: lalisand@fd.cvut.cz

This course is part of the EuroTeQ Engineering University joint course catalogue 2023. This is a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU, TUM as well as Technion. Students from these universities can participate in the offered courses. It is the responsibility of the student to check if you fulfil the requirements to participate in a specific course. Students are also advised to check with their home institution how to get recognition of the ECTS credits gained in courses of the EuroTeQ course catalogue. For further information about EuroTeQ Engineering University, visit www.euroteq.eu or get in touch with the above-mentioned point of contact.