

Subject list available in English

Human factor in aviation and limitations

Credit points 2 KP, 3 ECTS

Course envelops knowledge about human abilities and limitations, as well as about human factor's influence on flight safety

Aviation laws and normative acts

Credit points 2 KP, 3 ECTS

The course envelops legal acts about aviation law, legal regulation in air traffic, as well as knowledge about significance of the International Civil Aviation Organization and regulations it has developed.

Introduction to specialty (aviation)

Credit points 2 KP, 1,5 ECTS

During the course students have the opportunity to master aviation transport system operation, basics of aircraft aerodynamics, construction of aircraft and its systems, operation of systems, aviation technics exploitation in various stages of flight, knowledge about services that ensure aircraft flight safety and high efficiency of exploitation in civil aviation.

Thermodynamics

Credit points 2 KP, 3 ECTS

In the course students have an opportunity to master basics of thermodynamics, to learn understand heat-engine physical process in a technically correct way, as well as to obtain knowledge about GTE and PE cycles and their descriptions.

Quality system management

Credit points 2/4 KP, 3/6 ECTS

The course envelops acquisition of theoretical knowledge of quality management principles and practical activities. Students are provided with an opportunity to master quality management philosophy at first and then to continue with study of practical activity examples and their realization in various companies within the sphere of production and services and government institutions.

Power plants

Credit points 2 KP, 3 ECTS

During the course students will become acquainted with various power plants and will master the structure of aircraft power plants and technical maintenance, standard failures and damages in exploitation, will acquire basic practical abilities and skills to make decisions about engine condition.

Project management

Credit points 2 KP, 3 ECTS

Within the course framework there are discussed the methods regarding project elaboration and realization. Students are provided with knowledge that is necessary to select projects, plan, manage, control and assess them. Methodology is considered

with regard to project elaboration, assessment, optimization, work and resource planning, as well as risk management. There are analyzed: EU Structural Funds project tender procedure, EU Structural Funds project application form completion, as well as assessment criteria of the submitted project. Students are provided with an opportunity to acquire knowledge how to elaborate their own project by putting forward aims and analyzing possibilities.

Research elaboration

Credit points 2 KP, 3 ECTS

The aim of the study course is to provide theoretical knowledge and practical skills in research elaboration, including elaboration of final thesis. Research elaboration study course gives basic knowledge about types of studies, research planning, analysis of scientific literature, choice and use of research methods as well as skills to independently plan scientific research, obtain necessary baseline information and data, choose and use research methods appropriate to the aim and type of the study and to summarize, interpret and publish research results.

Business communication

Credit points 2 KP, 3 ECTS

The aim of the study course is to provide skills in business communication, team work, and etiquette of the corporate relations and also an introduction to problem situations in the business communication and the means of overcoming them. Students also acquire skills in business correspondence – written communication regarding various topics of the everyday business activities, with a focus on issues regarding logistics and transportation.

Intensive course in spoken English

Credit points 2 KP, 3 ECTS

The aim of the study course is to develop skills in spoken English in the professional field and also in the everyday communication. The study course aims to broaden the student's vocabulary and ability to speak freely in English regarding various topics.

Advertisement management

Credit points 2 KP, 3 ECTS

The aim of the study course is to provide the students with theoretical knowledge and practical skills in advertising - the development of marketing communication strategy, planning and realization of advertising campaign. Students are introduced with the trends in advertising sector, legislations, development of an advertisement and basic principles of ensuring effectively of an advertisement, it's psychological effect and a connection with the social processes in the society.

Computer science (Matlab)

Credit points 2 KP, 3 ECTS

The aim of the study course is to train student's logical thinking and to provide basic user skills of Matlab software.

Drawing (Inventor)

Credit points 2 KP, 3ECTS

The aim of the study course is to train student's spatial and creative thinking and to provide basic user skills of Inventor software.

Theoretical mechanics

Credit points 4 KP, 6ECTS

Subject prepares student to comprehend regularities of mechanical movement in nature, technics and social life, to ascertain rules of material object movement and quietus, to be able to analyse interplay and movement of the numerically simplest objects (material point, solid body and mechanical system) depending on forces and rules of movement start and to prepare for analysis of theoretically real static and dynamic tasks.

Mathematics

Credit points 4 KP, 6ECTS

The aim of subject is acquisition of skills that are necessary for mastering applicable mathematical methods in theoretical parts of special disciplines;