

Date:	Examination No.:	Version:1/02/2023	Start: 12/02/2023
Module Name - Code	Ensuring environmental safety of aviation activity		
Module Language:	English		
Responsible:	Dr. Salar Saber Kartas Sherwani		
Lecture (s):			
College:	College of Engineering – Salahaddin University		
Duration:	14 week – 1 semester		
Course outcomes:	At the end of the semester, students would be able to understand ensuring environmental safety of aviation activity in aerospace engineering and its impact on the airplane guides and problem-solving principles. The student will get familiar to partition problems into sub-problems then solve sub problems. They will get to know the starting point of ensuring environmental safety of aviation activity in aerospace at the end of the semester. Students will learn about how the expansion of aviation and environment in manufacturing is affecting the aerospace industry. And also they will receive handouts on theory.		
Course Content:	<p style="text-align: center;">Content</p> <p style="text-align: center;">Ensuring environmental safety of aviation activity</p> <p>Chapter 1: Climate change.</p> <p>Chapter 2: Air quality.</p> <p>Chapter 3: Local environment.</p> <p>Chapter 4: Noise.</p> <p>Chapter 5: Emissions of pollutants from aircraft engines.</p>		
Literature:	<p style="text-align: center;">References</p> <p>Asaturov M.L. Environmental pollution in air transport processes. – Tutorial, Saint Petersburg., – 2010. – 94 p.</p> <p>Zorin A.V., FOKICHEVA Fokicheva A.A. Impact of civil aviation on the environmental state oh the atmosphere. – Saint Petersburg., – 2019. – 108 p.</p> <p>Making Aviation Environmentally Sustainable, 3rdECATSConference, Co-hosted with Swedish Aeronautical Research Council (SARC) Book of Abstracts, Volume1, June 2020. 262 P.</p> <p>Environment and Aviation. A publication by the companies of the Austrian air transport industry. –70 p.</p>		
Type of Teaching:	3 hrs in lectures		
Pre-requisites:			
Frequency:	Yearly in the spring semester		
Requirements for credit points:	<p>For the award of credit points, it is necessary to pass the module exam.</p> <p>The module exam theoretical contains:</p> <p style="text-align: center;">[Written 120 min for theoretical]</p> <p>Students' attendance is required in all classes.</p>		
Credit point:	3		
Grade Distribution:	<p>The Grade is generated from the examination result(s) with the following</p> <p style="text-align: center;">10% Quizzes</p> <p style="text-align: center;">10% practical</p> <p style="text-align: center;">20% mid-term exam</p> <p style="text-align: center;">60% final theoretical Exam</p>		
Work load:	The workload is 150h. It is the result of 60h attendance and 90h self-studies.		