



T.C. ESKİŞEHİR OSMANGAZİ UNIVERSITY
ENGINEERING AND ARCHITECTURE FACULTY
MECHANICAL ENGINEERING DEPARTMENT

COURSE INFORMATION FORM

SEMESTER Spring

COURSE CODE	151817349	COURSE NAME	DESIGN OF AEROVEHICLE
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAGE
7	3	0	0	3	3	COMPULSORY () ELECTIVE (X)	Turkish
COURSE CATAGORY							
Basic Science		Basic Engineering		Engineering Subjects [if it contains considerable design, mark with (√)]			Social Science
				(√)			
ASSESSMENT CRITERIA							
MID-TERM				Evaluation Type		Quantity	%
				Mid-Term			
				Quiz			
				Homework		2	70
				Project			
				Report			
				Others (.....)			
FINAL EXAM					1	30	
PREREQUIEITE(S)				---			
COURSE DESCRIPTION				NDI in aviation, maintenencein aviation , RAM, armour materials, Pytotechnics and application of aviation , Frames of Aeroplanes			
COURSE OBJECTIVES				• Introductio to fuselage • "Aviation Sector In Practice" of these fuselages • These applications, reflected technolog • As an engineer, in the light of these developments, new designs and be able to interpret the current developments • identify the sector of industrial facilities and opportunities to learn about the issues so that the lesson learned in the sector and establish the relationship between the tractor industry issues.			
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUCATION				Mechanical engineer a contemporary and knowledge sharing to reach the ball to forward the importance of today's information age, given that the locomotive of this course the student technologies based on the most current information in a matter of professional training contribute very valuable.			
COURSE OUTCOMES				Through this course, because it is the fastest growing technology, aerospace, professional literature, is considered to be updated very often.			
TEXTBOOK				Uçak Tasarım Projeleri, LLYOD R., JENKINSON			
OTHER REFERENCES				A'dan Z'ye Dünya Uçakları ve Helikopterleri, KUŞHAN M.C. • Recent Advantages in Aircraft Technology, AGARWAL K. • Uçaklar ve Helikopterler, ŞAHİN K.			

	<ul style="list-style-type: none">• Uçak Ana Elemanları, ÖZŞAHİN E.
TOOLS AND EQUIPMENTS REQUIRED	Equipment of PPT presentation

COURSE SYLLABUS	
WEEK	TOPICS
1	The principle of the general structure of the aircraft and flight
2	Aircraft recognition
3	Aircraft wing and ailerons
4	Landing gear
5	Airframes
6	Aircraft Design
7	Aircraft Design
8	Mid-Term Examination
9	Mid-Term Examination
10	Aircraft Design
11	Aircraft Design
12	Presentation of Homeworks
13	Presentation of Homeworks
14	Presentation of Homeworks
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	Sufficient knowledge of engineering subjects related with mathematics, science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of engineering problems.	[X]	[]	[]
2	Ability to determine, define, formulate and solve complex engineering problems; for that purpose an ability to select and use convenient analytical and experimental methods.	[X]	[]	[]
3	Ability to design a complex system, a component and/or an engineering process under real life constraints or conditions, defined by environmental, economical and political problems; for that purpose an ability to apply modern design methods.	[X]	[]	[]
4	Ability to develop, select and use modern methods and tools required for engineering applications; ability to effective use of information technologies.	[x]	[]	[]
5	In order to investigate engineering problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results.	[]	[X]	[]
6	Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence.	[]	[X]	[]
7	Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language.	[X]	[]	[]
8	Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement.	[X]	[]	[]
9	Understanding of professional and ethical issues and taking responsibility	[X]	[]	[]
10	Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development.	[X]	[]	[]
11	Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions.	[X]	[]	[]
1:None. 2:Partially contribution. 3: Completely contribution.				

Prepared by: Assoc. Prof. Dr. Melih Cemal Kushan

Date:

Signature(s):