



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

COURSE INFORMATION FORM

SEMESTER	Spring
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COURSE CODE	151818422	COURSE NAME	VENTİLATOR DESIGN
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAGE
VII	3					COMPULSORY () ELECTIVE (X)	TURKISH

COURSE CATAGORY

Basic Science	Basic Engineering Engineering [if it contains considerable design, mark with (√)]	Social Science
		(X)	

ASSESSMENT CRITERIA

	Evaluation Type	Quantity	%
MID-TERM	Mid-Term	1	50
	Quiz		
	Homework		
	Project		
	Report		
	Others (.....)		
FINAL EXAM		1	50

PREREQUIEITE(S)

COURSE DESCRIPTION All kinds of Ventilator description, theory and desingn in industry

COURSE OBJECTIVES Prepare the students to industry for qapplication of ventilators.

ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION A compulsory subject for all mechanical engineering students.

COURSE OUTCOMES

TEXTBOOK FANS, Dr. Bruno Eck,

OTHER REFERENCES

TOOLS AND EQUIPMENTS REQUIRED Necessary documents will be given during lectures..

COURSE SYLLABUS	
WEEK	TOPICS
1	Description of Hydraulic Machinery and Ventilators.
2	Nomenclature for ventilators at application (e.g. manometric height,)
3	Similarity at Ventilators
4	Efficiency and power at ventilators
5	Ventilator theory
6	Characteristics at Ventilators.
7	Description of Power at ventilators
8	Mid-Term Examination
9	Mid-Term Examination
10	Euler theory for ventilators
11	Application of ventilators at industry
12	Ventilator design
13	Ventilator design
14	Ventilator design
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:

Date:

Signature(s):