

ESOGÜ Mechanical Engineering Department

COURSE INFORMATION FORM

SEMESTER	FALL

COURSE CODE	151817426	COURSE NAME	Transport Technique
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SEMESTER	WEEKLY COURSE PERIOD				Course of			
	Lecture	Practice	Laboratory	Credit	ECTS	T	YPE	
7	3	0	0	3	5	NON-SELECTIVE () SELECTIVE (
			COURSE CAT	TEGORY				
Math. and Basic Sciences				Subjects [Pu ourse contain able design.]		General	Other	
	×			(√)				
			ASSESSMENT (CRITERIA		1		
			Type	Quanti		•	%	
				1st Mid-Term Exam.		1	10	
			2nd Mid-Term Ex	xam.		1	20	
MI	ID-TERM E	XAM	Quiz			_		
			Homework			1	20	
			Project					
			Report					
			Other ()					
FINAL EXAM.						1 50		
PREREQ	UISITE(S) (OF COURSE	Strength of the m	aterials, Mec	hanics			
Introducing of lifting, handling and transfer machines used in industry; selecting the appropriate economic system for their capacity; selection hoists, elevators, conveyor belts, moving belts and augers elements to the Turkish and international standards on issues; periodic maintenance and				selection of cranes onts to the standards				
COU	RSE OBJEC	CTIVES	Distribution of the a presentation at th transfer systems a selection and use about of industrial	procedures on removal, transport and transfer machines; Distribution of the course topics to each student at the beginning of the period to make a presentation at the end of the period; teach the all details of the lifting, handling and transfer systems are used in all areas except land, sea and air transport; show the selection and use of standards in all these issues; transfer the practical information about of industrial organizations; create a solid infrastructure to the engineers, who work in this regard after graduation, to have no difficulty in enterprises;				
		SE TO APPLY DUCATION	An important under	An important undergraduate course within vocational course.				
COU	J RSE OUT	COMES	explain the importa	create a solid infrastructure students who will work in the industry on the subject; explain the importance of transport technique, introduce tools used in this regard, explain its importance in the application				
	TEXTBOO	OK	DEMİRSOY, M.	, Transport T	ekniği, Cilt I	, II, III, 1993		
ОТН	ER REFER	ENCES	T.M.M.C 2- Konularl	 AŞİK, E., Bandlı Konveyörler, Hesap ve Konstrüksiyon Esasları, T.M.M.O.B. yayın no : 98. Konularla ilgili çeşitli Türk ve yabancı standartlar. Konularla ilgili periyodikler, dergiler, imalatçı firma katalogları. 				
TOOLS	S AND EQU	IPMENTS						

COURSE SYLLABUS					
WEEK	TOPICS				
1	Introduction to Transport Technique; its applications; lifting, handling and transfer types				
2	The definition of crane and tackle; classifications according to various criteria,				
3	Overhead crane and its components, strength calculations and design of beams				
4	Methods of selecting and calculating and of design wheels and rails				
5	Grouping and analysis of drive systems, introducing the elements of load holding				
6	Midterm I				
7	Wire and fiber ropes, calculation and selection criteria for the rope				
8	Wire rope drive pulleys, drums, mechanics of pulleys and pulley systems				
9	Components of chains and elevator systems, calculation and design criteria				
10	Continuous handling equipment (conveyors Band, marching bands, spirals), calculation and design criteria				
11	Midterm II				
12	A. C., D.C. motors used in transport machines				
13	Analysis of braking systems used in transport machines, periodic inspection and maintenance of lifting, handling and transfer systems				
14	Seminar				
15,16					

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 modeling experimental methods.		X	
3	Ability to design a complex system, a component and/or an engineering process under real life constrains 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; 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	e. 2:Partially Contribution. 3: Completely Contribution.			

Lecturer:		

Date:
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