

LECTURE INFORMATION FORM OF THE UNIVERSITY ELECTIVE COURSE

Course Details							
Code		Semester			University-Wide Quota		
ÜSDMEC048		Spring			72		
Title		т	Α	L	ECTS		
Exploring the Nanoworld		2			3		
Language	German						
Department / Program	Mechatronics Engineering						
Forms of Teaching and Learning	Formal						
Course Type	Elective course						
Objectives	The aim of this course is to provide an opportunity to the students that they learn the inventions and life of the scientists subject to the Nobel Prize in Physics.						
Content	 Literature search about the presentation topic Acquire fundamental knowledge about the inventions Learning the theory of the inventions Learning the history of the inventions Learning of the importance and application areas of the inventions 						
Prerequisites							
Coordinator	Asst.Prof.Dr. Ali Can Kaya						
Lecturer(s)	Asst.Prof.Dr. Ali Can Kaya						
Assistant(s)	Lecturer Ali Korucu						
Work Placement							
Recommended or Required Reading							
Books / Lecture Notes	Presentations						
Other Sources							
Additional Course Material							
Documents							
Assignments							
Exams							
Course Composition							
Mathematics und Basic Sciences					20%		
Engineering					30%		
Engineering Design							
Social Sciences					20%		



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Educational Scie	nces				
Natural Sciences	;			30%	
Health Sciences				%	
Expert Knowled	ge			%	
Assessment					
Activ	vity	Cou	nt	Percentage (%)	
Midterm Exam					
Quiz					
Assignments					
Attendance				%10	
Recitations	itations				
Presentations	resentations 1		%50		
Final Exam	inal Exam 1			%40	
			Total	100	
ECTS Points an	d Work Load				
Activ	vity	Count	Duration	Work Load (Hours)	
Lectures		15	2	30	
Self-Study					
Assignments					
Presentation / Seminar Preparation		1	2	2	
Midterm Exam					
Recitations					
Laboratory					
Projects					
Final Exam		1	1	1	
	Total Work Load 33				
ECTS Points (Total Work Load / Hour) 3					
Learning Outco	omes				
1	Acquiring knowledge about the histroy of the Nobel prize				
2	Acquiring knowledge about the inventions				
3	Acquiring knowledge about the presentation of those inventions				
4					
5					
6					
7					



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8						
9						
10						
11						
12						
Weekly Content						
1	Introduction					
2	History of the Nobel Prize					
3	Seminar 1					
4	Seminar 2					
5	Seminar 3					
6	Seminar 4					
7	Seminar 5					
8	Seminar 6					
9	-Midterm exams-					
10	Seminar 7					
11	Seminar 8					
12	Seminar 9					
13	Seminar 10					
14	Seminar 11					
15	Seminar 12					
https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=196						
Compiled by:		Asst.Prof.Dr. Ali Can Kaya				
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