Course Title-Cou NANOTECHNO		LT531					ogramme CHNOLOG			
Semester		eaching Meth	ods	ods			Credits			
	Lecture	Recite	Lab.	Field Study		Other	Total	Credit	ECTS Credit	
	42							3	7.5	
Language	Turkish									
Compulsory / Elective	Compulsory									
Prerequisites	Introduction to Nanotechnology I									
Course Contents	Nanostructures ,Nanomaterials Synthesis and Applications,, Synthesis and characterization of Carbon nanosphere ,Carbon Nanotube, Synthesis Carbon Nanotube ,Growth mechanisms of carbon nanotubes, Properties of Carbon Nanotubes, Carbon Nanotube-Based Nano-Objects, Applications of Carbon Nanotubes, Nanowires , Synthesis Nanowires, Characterizations of Nanowires, Applications of Carbon Nanowires, Core-Shell Structures,Synthesis and characterization of CdS/ CdSe Nanoelectromechanical Systems and Applications, Industrial Applications									
Course Objectives	The aim of the course is to learning fundamentals of nanostructures.									
Learning Outcomes and Competences	The students who have taken this course can learn fundamentals of nanostructures.									
	3. 1	Publication Kluwer Ac	n New Yor cademic Pu Materials	notechnology, k 2004 Nano ablishers New in Chemistry,	ostructured York 2004	Materials	Philippe Kr	nauth, Joop	Schoonman	
Assessment Criteria							-	f any,mar s (X)	k Percent	
	Midterm	Exams						X	30	
	Quizzes									
	Homeworks							X	20	
	Projects									
	Term Pa	per								
	Laborato	ory Work								
	Other									
	Final Exa	am						X	50	
Instructors	Assist. Pro	of. Dr. Şül	ırü ÇAVD	AR, cavdar@	gazi.edu.tr		ı		<u> </u>	
Week	Subject									
1 2 3 4	Synthesis	rials Synth and charac	terization	applications of Carbon nar arbon Nanotu	nosphere					

	Growth mechanisms of carbon nanotubes, Properties of Carbon Nanotubes					
5	Carbon Nanotube-Based Nano-Objects, Applications of Carbon Nanotubes					
6	Nanowires					
7	Midterm					
8	Nanowires					
9	Synthesis Nanowires					
10	Characterizations of Nanowires, Applications of Carbon Nanowires					
11	Core-Shell Structures					
12	Synthesis and characterization of CdS/ CdSe					
13	Nanoelectromechanical Systems and Applications					
14	Industrial Applications					