

Course Title-Course Code: ENV 528 Engineering Systems For Solid Waste Management					Programme Name: ENVIRONMENTAL SCIENCES				
Semester	Teaching and Learning Methods (Hours per Semester)							Credits	
	Lecture	Recite	Lab.	Homeworks	Term Paper	Other	Total	Basic Credit	ECTS Credit
1-2	42				100	46	188	3	7,5
Language	Turkish								
Compulsory / Elective	Optional								
Prerequisites	-								
Course Contents	Types of Solid Waste; Municipal wastes, Industrial wastes, Hazardous wastes Sources, composition and properties of Solid Wastes. Collection, Separation, transportation and recovery of Solid Wastes. Landfill method, energy production with combustion and gasification. Waste management and planning.								
Course Objectives	Environmental impacts of production and disposal solid wastes and engineering approach and solutions								
Learning Outcomes and Competences	Understanding of the composition and properties of solid wastes. Learning of the disposal and recovery methods. Understanding of the solution techniques of the environmental pollution caused solid wastes.								
Textbook and /or References	1.Tchobanoglous G., H.T., S. V., Integrated Solid Waste Management, McGraw-Hill Book Company, 1993 2.Paul T. Williams, Waste Treatment and Disposal, John Wiley & Sons, 1998								
Assessment Criteria								If any, mark as (X)	Percent (%)
	Midterm Exams							X	30
	Quizzes								
	Homeworks								
	Projects								
	Term Paper							X	20
	Laboratory Work								
	Other							X	10
Final Exam							X	40	
Instructors	Asst. Prof. Hüseyin TOPAL								
Week	Subject								
1	What is the solid waste?								
2									
3	Municipal wastes and its properties								
4	Industrial wastes and its properties								
5	Hazardous wastes and its properties								
6	Sources of solid waste and composition								
7	Collection, separation, transportation and recovery of the solid wastes								

<b>8</b>	Collection, separation, transportation and recovery of the solid wastes
<b>9</b>	Collection, separation, transportation and recovery of the solid wastes
<b>10</b>	Landfill method
<b>11</b>	Waste treatment and energy production by thermal processes, combustion
<b>12</b>	Waste treatment and energy production by thermal processes, gasification
<b>13</b>	Waste treatment and energy production by thermal processes, pyrolysis
<b>14</b>	Solid waste management and planning
	Solid waste management and planning