

INS2722 CONSTRUCTION MATERIALS (G-4) WEEKLY PROGRAM			Prof. Dr. Orhan CANPOLAT
W.	Date	Subjects	Notes
1	20.02.2024 Tuesday	Introduction, Textbook, References.	13 ⁰⁰ :14 ⁵⁰
	23.02.2024 Friday	Aggregates, Definition, properties, and classifications of natural stones for using concrete mix or not	14 ⁰⁰ :15 ⁵⁰
2	27.02.2024 Tuesday	Obtaining, classification, shape, strength, and durability of aggregates	
	1.03.2024 Friday	Harmful substances and particles in aggregates (Organic materials, sulfate effect, ASR and etc.)	
3	5.03.2024 Tuesday	Physical properties of Aggregates: Specific gravity, bulk density, compactness, porosity	
	8.03.2024 Friday	Binding materials: Definition, classification, gypsum, aerobic lime, hydraulic lime.	
4	12.03.2024 Tuesday	Tutoring: Water absorption, Granulometry, Sieve Analysis	Tutoring-1
	15.03.2024 Friday	Cement: Definition, production, oxides	
5	19.03.2024 Tuesday	Laboratory: Determination of physical and mechanical properties of aggregates.	Laboratory-1
	22.03.2024 Friday	Hydration, stiffening and hardening of cement	
6	26.03.2024 Tuesday	Physical properties of cement: fineness, specific gravity, water content of cement paste, setting time; Mechanical properties: Flexural strength, compressive strength.	
	29.03.2024 Friday	Pozzolans, Types of Cement	
7	2.04.2024 Tuesday	Properties of fresh concrete, slump, Ve-Be, air content, bulk density, wall effect	
	5.04.2024 Friday	Laboratory: Cement Tests	Laboratory-2
8	9.04.2024 Tuesday	Holiday /Ramazan Bayramı	Official Holiday
	12.04.2024 Friday		
9	16.04.2024 Tuesday	1st Midterm Exam	Exam
	19.04.2024 Friday		
10	23.04.2024 Tuesday	National Holiday/23 Nisan	Official Holiday
	26.04.2024 Friday	Concrete mix design, Properties of hardened concrete: Compressive strength, Flexural strength, Tensile strength; Factors affecting strength of concrete	
11	30.04.2024 Tuesday	Tutoring: Concrete mix design	Tutoring-2
	3.05.2024 Friday	Stress-strain behavior of concrete, Modulus of elasticity and Poisson ratio of concrete; Non –Destructive test methods (Ultrasonic, Schmidt Rebound Hammer)	
12	7.05.2024 Tuesday	Laboratory: Determination of hardened concrete properties by destructive and non-destructive test methods	Laboratuvar – 3
	10.05.2024 Friday	Concrete admixtures	
13	14.05.2024 Tuesday	Volume change, shrinkage, creep and thermal deformation of concrete	
	17.05.2024 Friday	Wood: classification, mechanical properties, moisture content, relation between mechanical properties and moisture, defects in wood.	
14	21.05.2024 Tuesday	Tutoring: Wall effect, shrinkage, maturity of concrete, wood....	Tutoring-3
	24.05.2024 Friday	Quiz Make-Up Exam	