### MSE 225 INTRODUCTION TO MATERIALS SCIENCE

#### 2021-2022 Fall

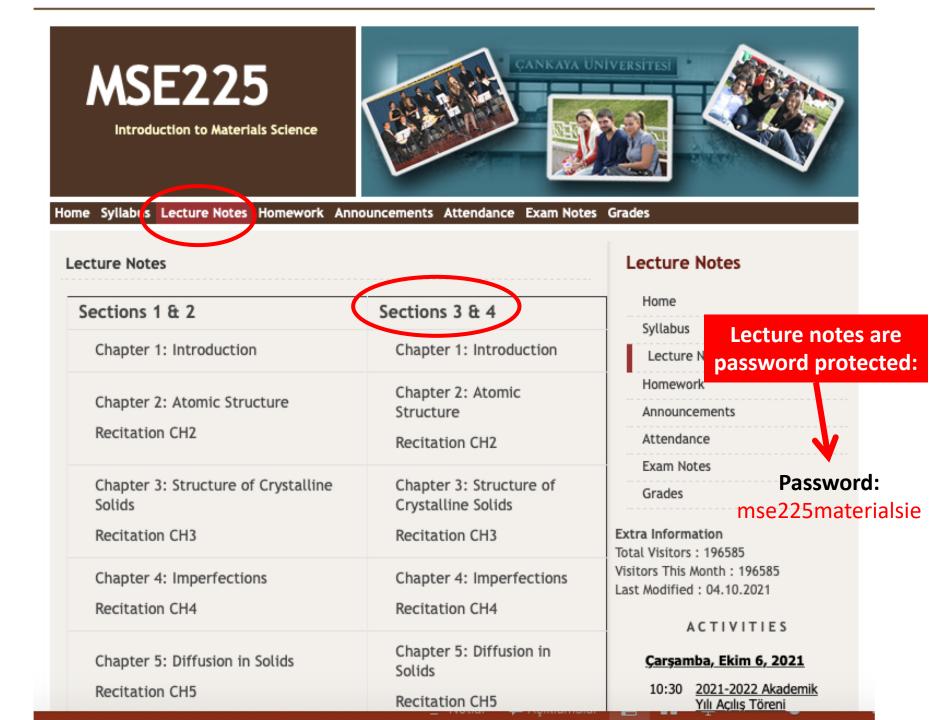
## Details about MSE 225

• 3 hours lectures

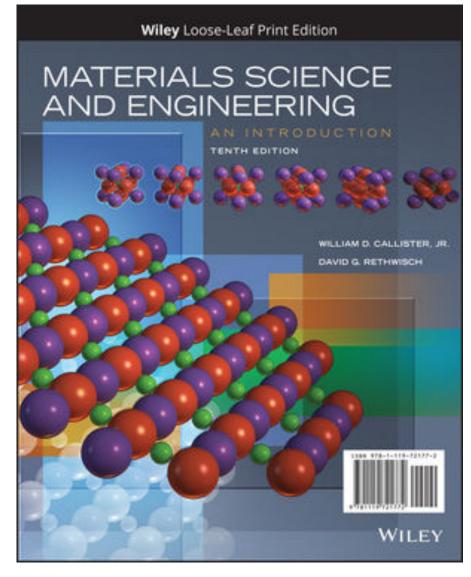
• 2 hours recitation (on Thursday)

• Syllabus is given on the course website

• Course web site: <a href="http://mse225.cankaya.edu.tr/">http://mse225.cankaya.edu.tr/</a>



## Textbook



<b>Topics</b> covere	<u>ed</u>
Introduction; I	Definition and classification of materials
Atomic struct	ure, periodic table, molecular structure, bonding
Structure of C	rystalline Solids
Imperfections	in Solids
Diffusion in S	olids
Mechanical Pr	operties of Metals I
(Test methods	; Stress-strain curves)
Mechanical Pr	operties of Metals II
(Strength, duc	tility, toughness, resilience; Dislocations and Strengthening Mech.)
Failure I	
(Fracture, type	es of fracture, fracture mechanisms, impact test)
Failure II	
(Fatigue and c	reep)
Phase Diagran	ns

# Outline...

#### For any questions about the course...

Send e-mail to:

senizakin@cankaya.edu.tr