

MIDDLE EAST TECHNICAL UNIVERSITY
Graduate School of Natural and Applied Sciences
Micro and Nanotechnology Program

MNT 502 CHARACTERIZATION TECHNIQUES AT THE NANOSCALE
(2-2) 3 credits

Tuesdays (13:40 – 17:30) – Central Laboratory-Beyaz Anfi

Course coordinator: Assoc. Prof. Burcu Akata Kurç, Central Lab. Office No 211

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Week	Date	Topic	Instructor Name
1	17 February	<i>General Introduction to Experimental Techniques</i> <i>SEM-Introduction</i>	Assoc. Prof. Burcu Akata Kurç Asst. Prof. Selcuk Yerci
2	24 February	<i>Electron Microscopy Techniques: SEM + EBSD + EDX</i>	Assoc. Prof. Burcu Akata Kurç
3	3 March	<i>Electron Microscopy Techniques: TEM</i>	Assoc. Prof. Almıla Yazıcıoğlu
4	10 March	<i>Electron Microscopy Techniques: LAB</i>	Assoc. Prof. Burcu Akata Kurç
5	17 March	<i>Atomic Force Microscopy, Scanning Probe Microscopy: AFM/SPM</i>	Prof. Ahmet Oral
6	24 March	<i>Atomic Force Microscopy, Scanning Probe Microscopy & LAB-AFM/SPM</i>	Prof. Ahmet Oral
7	31 March	<i>Spectroscopy Techniques: Solid & Liquid NMR & LAB</i>	Assoc. Prof. Burcu Akata Kurç
8	7 April	MIDTERM I (13:40, Central Lab. Beyaz Anfi)	Assoc. Prof. Burcu Akata Kurç
9	14 April	<i>Particle size analysis & LAB-DLS/ZETA POTENTIAL</i>	Prof. Dr.Necati Özkan
10	21 April	<i>Physical adsorption & LAB-BET</i>	Prof. Dr.Necati Özkan
11	28 April	<i>Electron Spectroscopical Techniques: ESCA</i>	Asst. Prof. Selçuk Yerci
12	5 May	<i>Electron Spectroscopical Techniques: ESCA & LAB</i>	Asst. Prof. Selçuk Yerci
13	12 May	<i>Spectroscopy Techniques:UV-VIS&FTIR & LAB</i>	Asst. Prof. Selçuk Yerci
14	20 May- Wed	<i>Spectroscopy Techniques:Raman & LAB</i>	Asst. Prof. Selçuk Yerci
15	26 May	FINAL (13:30, Central Lab. Beyaz Anfi)	Tentative