

**ATILIM UNIVERSITY**  
**SCHOOL OF MEDICINE**  
**2025-2026 ACADEMIC YEAR / FALL TERM**

<b>MED 323</b>	<b>Bioengineering and Advanced Therapeutic Strategies in Medicine</b> <b>Instructor: Assist. Prof. Dr. Özge BOYACIOĞLU</b>
<b>TIME (Weeks/Hours)</b>	<b>TOPICS</b>
25 September 2025 15:30-17:20	Overview of Advanced Therapeutic Approaches Lecture Hall: C-401
2 October 2025 15:30-17:20	Fundamentals of Drug Delivery Systems Lecture Hall: C-401
9 October 2025 15:30-17:20	Smart Drug Delivery Systems with Nanotechnology I: Fundamentals and Classification Lecture Hall: C-401
16 October 2025 15:30-17:20	Smart Drug Delivery Systems with Nanotechnology II: Targeting and Stimuli-Responsive Approaches Lecture Hall: C-401
23 October 2025 15:30-16:20	Tumor Microenvironment and the Effect of Drug Delivery on the Tumor Microenvironment Lecture Hall: C-401
23 October 2025 16:30-17:20	Advanced Drug Delivery Strategies in Cancer Treatment Lecture Hall: C-401
30 October 2025	<b>Committee Exam Week: No Classes</b>
6 November 2025 15:30-17:20	Case Studies and Solutions-I Lecture Hall: C-401
13 November 2025 15:30-17:20	<b>MIDTERM EXAM</b> <b>Lecture Hall: C-401</b>
20 November 2025 15:30-17:20	Advanced Topics in Cell and Tissue Engineering I: Advanced Culture Systems and Tumor Microenvironment Modeling Lecture Hall: C-401

27 November 2025 15:30-17:20	Advanced Topics in Cell and Tissue Engineering II: Biosignal Molecules Lecture Hall: C-401
4 December 2025 15:30-17:20	Advanced Topics in Cell and Tissue Engineering IV: Regenerative Medicine and Bioprinting Lecture Hall: C-401
11 December 2025 15:30-17:20	Advanced Topics in Cell and Tissue Engineering III: Decellularization and Recellularization Approaches Lecture Hall: C-401
18 December 2025 15:30-17:20	Personalized Medicine Applications: Omics Approaches Lecture Hall: C-401
25 December 2025 15:30-17:20	Case Studies and Solutions-II Lecture Hall: C-401
1 January 2026	<b>HAPPY NEW YEAR</b>
8 January 2026 15:30-17:20	<b>Article Hour</b> <b>FINAL EXAM and Report Writing</b> <b>Lecture Hall: C-401</b>