

ATILIM UNIVERSITY

SCHOOL OF MEDICINE

2026-2027 Academic Year, Fall Term

Elective Course for Phase 3 Students

MED 323 Bioengineering and Advanced Therapeutic Strategies in Medicine

Instructor: Assist. Prof. Dr. Özge BOYACIOĞLU

Lecture Dates Lecture Hall: C-401	TOPICS
17.09.2026 15:30-17:20	Overview of Advanced Therapeutic Approaches Lecture Hall: C-401
24.09.2026 15:30-17:20	Fundamentals of Drug Delivery Systems Lecture Hall: C-401
01.10.2026 15:30-17:20	Smart Drug Delivery Systems with Nanotechnology I: Fundamentals and Classification Lecture Hall: C-401
08.10.2026 15:30-17:20	Smart Drug Delivery Systems with Nanotechnology II: Targeting and Stimuli-Responsive Approaches Lecture Hall: C-401
15.10.2026 15:30-17:20	Tumor Microenvironment and the Effect of Drug Delivery on the Tumor Microenvironment Lecture Hall: C-401
22.10.2026 15:30-17:20	Advanced Drug Delivery Strategies in Cancer Treatment Lecture Hall: C-401
29.10.2026	REPUBLIC DAY – Official Holiday
05.11.2026 15:30-17:20	MIDTERM EXAM Lecture Hall: C-401
12.11.2026 15:30-17:20	Advanced Topics in Cell and Tissue Engineering I: Advanced Culture Systems and Tumor Microenvironment Modeling Lecture Hall: C-401
19.11.2026 15:30-17:20	Advanced Topics in Cell and Tissue Engineering II: Biosignal Molecules Lecture Hall: C-401
26.11.2026 15:30-17:20	Advanced Topics in Cell and Tissue Engineering III: Decellularization and Recellularization Approaches Lecture Hall: C-401
03.12.2026 15:30-17:20	Advanced Topics in Cell and Tissue Engineering IV: Regenerative Medicine and Bioprinting Lecture Hall: C-401

10.12.2026 15:30-17:20	Personalized Medicine Applications: Omics Approaches Lecture Hall: C-401
17.12.2026 15:30-17:20	Case Studies and Solutions-I: Article Hour and Student Presentations Lecture Hall: C-401
24.12.2026 15:30-17:20	Case Studies and Solutions-II: Article Hour and Student Presentations Lecture Hall: C-401
31.12.2026 15:30-17:20	FINAL EXAM and Report Writing Lecture Hall: C-401