

ATILIM UNIVERSITY
FACULTY OF MEDICINE
2025-2026 ACADEMIC YEAR

| | |
|-------------------------------------|---|
| MED 323 | Bioengineering and Advanced Therapeutic Strategies in Medicine Instructor: Assist. Prof. Dr. Özge BOYACIOĞLU |
| TIME (Weeks/Hours) | TOPICS |
| 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 15:30-17:20 | Tumor Microenvironment and the Effect of Drug Delivery on the Tumor Microenvironment Lecture Hall: C-401 |
| 30 October 2025 15:30-17:20 | Advanced Drug Delivery Strategies in Cancer Treatment Lecture Hall: C-401 |
| 6 November 2025 15:30-17:20 | Case Studies and Solutions-I Lecture Hall: C-401 |
| 13 November 2025 15:30-17:20 | MIDTERM EXAM Lecture Hall: C-401 |
| 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 | HAPPY NEW YEAR |
| 8 January 2026 15:30-17:20 | Article Hour Lecture Hall: C-401 |
| 15 January 2026 15:30-17:20 | FINAL EXAM and Report Writing Lecture Hall: C-401 |