

ATILIM UNIVERSITY
SCHOOL OF MEDICINE
2025-2026 ACADEMIC YEAR
SPRING SEMESTER
MED314 Enzymes in Medicine & Diagnostic Importance

MED314	Enzymes in Medicine & Diagnostic Importance Instructor: Prof. Dr. Nedret KILIÇ
TIME (Weeks/Hours)	TOPICS
19/ 02/ 2026 Thursday 15.30 -17.20	General Properties and Definitions of Enzymes Classification and Nomenclature of Enzymes
26/ 02/ 2026 Thursday 15.30 -17.20	Enzyme Kinetics: Catalytic Mechanism of Enzymes Enzyme Kinetics: Factors that Influence Enzymatic Reactions (Substrate Concentration, Enzyme Concentration, pH)
05 / 03/ 2026 Thursday 15.30 -17.20	Definition of Enzyme Activity Measurement of Enzyme Activity Calculation of Enzyme Activity
12 / 03/ 2026 Thursday 15.30 -17.20	Regulation of Enzyme Activity
19 / 03/ 2026 Thursday 15.30 -17.20	Eid al-Fitr
26/ 03/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes Enzymatic Measurement of Blood Glucose (The glucose oxidase/peroxidase assay)
02/ 04/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: Creatine Kinase (Case based learning)
09/ 04 / 2026 Thursday 15.30 -17.20	MID-TERM EXAM
16 / 04/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: Lactate Dehydrogenase (Case based learning)
23 / 04/ 2026 Thursday 15.30 -17.20	National Sovereignty and Children's Day
30/ 04/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: Aspartate Aminotransferase Clinical Significance of Enzymes: Alanine Aminotransferase (Case based learning)
07/ 05/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: Alkaline Phosphatase Clinical Significance of Enzymes: Acid Phosphatase (Case based learning)

14/ 05/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: g- Glutamyltransferase Clinical Significance of Enzymes: Amylase (Case based learning)
21/ 05/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: Lipase Clinical Significance of Enzymes: Glucose-6- Phosphate Dehydrogenase (Case based learning)
28/ 05/ 2026 Thursday 15.30 -17.20	Eid-al Adha
04/ 06/ 2026 Thursday 15.30 -17.20	Clinical Significance of Enzymes: Macroenzymes Drug-Metabolizing Enzymes
11/ 06/ 2026 Thursday 15.30 -17.20	FINAL EXAM