FIRAT UNIVERSITY FACULTY OF DENTISTRY COURSE SCHEDULE

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| Department | | : Medical Biochemistry |
| Grade | | : 1st Grade |
| Semester | | : 2024-2025 FALL/SPRING SEMESTER COURSES |
| Week |  | | |  |
| 1st Semester | Topic | | | Lecturer |
| 1.Week | Introduction to Organic Chemistry, Chemical Bonding and Functional Groups | | | Prof.Dr.Ferit GÜRSU |
| 2.Week | Water, Solubility, Acids and Bases, pH and Buffers | | | Prof.Dr. Dilara KAMAN |
| 3.Week | Carbohydrates: Structure of Monosaccharides and Carbohydrate Derivatives Polysaccharide: Structure and functions | | | Doç.Dr. Selda TELO |
| 4.Week | Carbohydrates: Structure of Monosaccharides and Carbohydrate Derivatives Polysaccharide: Structure and functions | | | Doç.Dr. Selda TELO |
| 5.Week | Amino Acids: Classification and Chemical Structure, Physical-Chemical Properties, Reactions and Isolation | | | Prof.Dr. Dilara KAMAN |
| 6.Week | Proteins Structure and Structure Analysis,  Hemoglobin and Myoglobin Structures | | | Prof.Dr. Dilara KAMAN |
| 7.Week | Chemical Structures and Functions of Lipids-I | | | Prof.Dr.Ferit GÜRSU |
| 8.Week | Chemical Structure and Functions of Lipids-II Nucleotides, Chemical structure and properties | | | Prof.Dr.Ferit GÜRSU  Prof Dr. Süleyman AYDIN |
| 9.Week | Introduction to enzymes, Structure and function of enzymes-I | | | Prof.Dr. Nevin İLHAN |
| 10.Week | Structure and function of enzymes-II | | | Prof.Dr. Nevin İLHAN |
| 11.Week | Structure and Functions of Vitamins | | | Prof.Dr. Nevin İLHAN |
| 12.Week | Trace elements | | | Prof.Dr. Nevin İLHAN |
| 13.Week | MIDTERM EXAM WEEK | | |  |
| 14.Week | MIDTERM EXAM WEEK | | |  |
| 15.Week | Hormones and their Chemical Structure | | | Prof Dr. Süleyman AYDIN |
| 16.Week | General Properties of Hormones | | | Prof Dr. Süleyman AYDIN |
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| 2nd Semester | Topic | Lecturer |
| 1.Week | Digestion and Absorption of Carbohydrates, Glycolysis | Doç. Dr. Selda TELO |
| 2.Week | Citrate cycle, Electron Transport Chain | Doç. Dr. Selda TELO |
| 3.Week | Gluconeogenesis, Glycogenolysis and Pentose phosphate pathway | Doç. Dr. Selda TELO |
| 4. Week | Digestion and absorption of lipids, Synthesis of fatty acids | Prof.Dr.Ferit GÜRSU |
| 5. Week | Beta oxidation of fatty acids Triacylglycerol and Cholesterol metabolism-I | Prof.Dr.Ferit GÜRSU |
| 6. Week | Beta oxidation of fatty acids Triacylglycerol and Cholesterol metabolism-II | Prof.Dr.Ferit GÜRSU |
| 7. Week | Nucleotide metabolism | Prof Dr. Süleyman AYDIN |
| 8. Week | Protein digestion and absorption, Amino acid biosynthesis | Prof. Dr.Dilara KAMAN |
| 9. Week | Amino acid metabolism, urea cycle | Prof. Dr.Dilara KAMAN |
| 10. Week | Biochemistry of body fluids | Prof Dr. Süleyman AYDIN |
| 11. Week | Bone tissue biochemistry, Connective tissue biochemistry | Prof.Dr. Nevin İLHAN |
| 12. Week | Biochemistry of tooth and caries | Doç. Dr. Selda TELO |
| 13. Week | MIDTERM EXAM WEEK |  |
| 14. Week | MIDTERM EXAM WEEK |  |
| 15. Week | Muscle tissue biochemistry  Blood tissue biochemistry | Prof.Dr. Nevin İLHAN  Prof.Dr.Dilara KAMAN |
| 16. Week | Coagulation biochemistry | Prof.Dr.Bilal ÜSTÜNDAĞ |
|  | END OF TERM |  |