

Ahvaz Jundishapur University of Medical Sciences

Course Title: Clinical Biochemistry (1)

Field and Level: Master's in Clinical Biochemistry

Faculty: Medicine Academic Year: 2025-2026

Prerequisite: General Biochemistry Credits: 3 Semester: Fall

Instructor Group: / Babaahmadi / Taghvaei / Mohammadzadeh / Rashidi / Salehipour / Ghasemian

Class Day and Time: Sunday 10-13

Instructor Name	Teaching Method	Learner Activities	Outline (Concepts to be Taught)	Date	Session
Dr. Mohammadzadeh			Proteins of Biological Fluids and Their Pathological Changes		First
Dr. Mohammadzadeh			Biochemical Analysis of Cerebrospinal Fluid and Other Body Fluids		Second
Dr. Salehipour			Biochemistry of Lipid and Lipoprotein Disorder Assessment		Third
Dr. Salehi			Biochemistry of Lipid and Lipoprotein Disorder Assessment		Fourth
Dr. Salehipour			Biochemical Tests for Liver Function Assessment		Fifth
Dr. Salehi			Biochemical Tests for Liver Function Assessment		Sixth
Dr. Babaahmadi			Biochemical Tests for Digestive Function Assessment		Seventh
Dr. Babaahmadi			Electrolytes and Blood Gases and Their Pathological Changes		Eighth
Dr. Babaahmadi			Electrolytes and Blood Gases and Their Pathological Changes		Ninth
Dr. Rashidi			Cancer and Tumor Markers and Cancer Staging		Tenth
Dr. Hashem Nia			Biochemical Importance of Iron and Anemia and Their Diagnosis		Eleventh
Dr. Rashidi			Investigation of the Effects of Drugs and Toxic Substances in the Body		Twelfth
Dr. Faridi			Biochemistry of Pregnancy and Laboratory		Thirteenth

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			Investigation of Reproduction	
Dr. Faridi			Biochemistry of Fertility and Infertility	Fourteenth
Dr. Salehipour			Hereditary Hemoglobin Disorders	Fifteenth
Dr. Salehipour			Laboratory Diagnosis of Hereditary Hemoglobin Disorders	Sixteenth
Dr. Igeder			Biochemistry of Aging	Seventeenth
Dr. Igeder			Oxidative Stress: Measurement Methods and Its Relationship with Diseases	Eighteenth
Dr. Hashem Nia			Cytokines and Their Pathological Changes	Nineteenth
Dr. Hashem Nia			Stool Biochemical Tests (Fat, Blood, etc.)	Twentieth
Dr. Hashem Nia			Stool Biochemical Tests (Fat, Blood, etc.)	Twenty-First
Dr. Faridi			Doping	Twenty- Second