

Pathophysiology 1 Schematic Schedule

Semester 14002 (Spring 2022)

Course Title	Course Commencement	Course Finale
Introduction of pharmacology	1400/12/14 March 5	1400/12/17 March 8
Pathophysiology of Cardiology	1401/01/14 April 3	14001/01/31 April 20
Pathophysiology of Pulmonary	1401/02/11 May 1	1401/02/28 May 18
Pathophysiology of Nephrology	14001/03/08 May 29	1401/03/25 June 15
Pathophysiology of Gastrointestinal System	1401/04/05 June 26	1401/04/22 July 13
Pathophysiology of Rheumatology	1401/05/02 July 24	14001/05/16 August 7

In Pathophysiology Phase which is offered for two semesters (14.4 Credits for the first and 21.2 for the second semester), lessons are held as a course, which means every 3 weeks one of the courses, along with Its Patho-Pharma and Its immunology, is taught from morning to afternoon, and the exam (course + It's Patho-Pharma) are held after a few Days.

It should be noted that **Immunology** exam will be held at the end of the semester,

- **Clinical pathology** is held in the second semester, along with courses. The exam will be held at the end of the same semester.
- **Pathology (Practice)** is held in the first and second semesters along with the courses, but the exam is held at the end of the second semester.
- **Medical statistics** is held in the second semester, during the semester, once a week, and its exam is held at the end of the second semester.
- Clinical skills (theory) are presented in the second semester. this course is taught for a week from morning to afternoon. (Signs and symptoms are thought)
- **Clinical Skills (practice)**-(Part1): Simultaneously with teaching clinical skills(theory), educational videos are also provided to students.
- **Clinical Skills (practice)**-(Part2): Students are divided into groups of 20 and clinical examinations who have seen in educational videos practice with each other or on mannequins with professors
- Communication skills (Medical Rituals) are taught in 5 days between part 2 and 3.
- **Clinical Skills (practice)**-(Part 3): Preceptorship: Students are divided into groups of 6 to 10 and are introduced to professors in hospitals. Students, in coordination with their professors in hospitals or educational-clinical centers, learn the history and examination at the patient's bedside in hospitals in 6, 2-hour sessions.

Pathophysiology 2 Courses
Second semester of the academic year 2021-2022,
entrance 97 c

Clinical skills (Theory and practice)					
15-17	13-15	10-12	8-10		
	Basic Clinical Skills 1 Physical Examination Session 1 (virtual) History and examination of vital signs	Basic clinical skills Introduction to clinical medicine		00.11.23 12/02/2022	Saturday
Clinical skills (Practice) Physical Examination Session 2 (virtual) Clinical examination of the heart	Clinical skills (Theory) Fever, chills, & fever of undetermined origin (FUO) Dr. Abdollahi	Clinical skills (Theory) Chest pain Dr. Anoushirvani	Clinical skills (Theory) Abdominal pain Dr. Alborzi	00.11.24 13/02/2022	Sunday
Clinical skills (Practice) Physical Examination Session 3 (virtual) Clinical examination of the lungs	clinical skills (Theory) Dysuria/Polyuria/Polydipsia Oliguria Dr. Najafi	clinical skills (Theory) Weight gain and weight loss Dr. Ali Asgari	clinical skills (Theory) Headache Dr. Ranji	00.11.25 14/02/2022	Monday
Public holiday				00.11.26 15/02/2022	Tuesday
Physical Examination Session 4 (virtual) Clinical examination	clinical skills (Theory) Diarrhea/Constipation Dr. Allameh	clinical skills (Theory) Jaundice Dr. Amani	clinical skills (Theory) Dizziness/Vertigo & fainting Dr. Sarraf	00.11.27 16/02/2022	Wednesday
				00.11.28 17/02/2022	Thursday
Public holiday				00.11.29 18/02/2022	Friday
clinical skills (Practice) Physical Examination Clinical examination of bones and joints	clinical skills (Theory) Altered level of consciousness Dr. Tafakhri	clinical skills (Theory) Nausea and vomiting Dr. Taher	clinical skills (Theory) Cough & Hemoptysis Dyspnea Dr. Kiai	00.11.30 19/02/2022	Saturday
clinical skills (Practice) Physical Examination Session 6 (virtual) Clinical examination of the head and neck	clinical skills (Theory) Low back pain Arthralgia/Arthritis Dr. Kavousi	clinical skills (Theory) Palpitation and cyanosis Dr. Sima	clinical skills (Theory) Pain Dr. Khajeh Nasiri	1400/12/01 20/02/2022	Sunday
Hematology- Imam Hospital					
13:30-15:30	11:30-13	10-11:30	8-10		
Immunohematology and blood bank	Normal homeostasis, coagulation tests	Principles of hemolysis, Membranopathies, and enzymopathies	Normal hematopoiesis, the physiopathology of clinical signs, and classification of anemias	00.12.02 21/02/2022	Monday
Medical statistics Session 1	Study of iron deficiency anemia and chronic diseases anemia /		Pathology Blood diseases	00.12.03 22/02/2022	Tuesday

	Megaloblastic anemia				
Physical Examination	Study of aplastic anemia and MDS courses of Hodgkin's lymphoma and non-Hodgkin's lymphoma / Oncology emergencies			00.12.04 23/02/2022	Wednesday
				00.12.05 24/02/2022	Thursday
Public holiday				00.12.06 25/02/2022	Friday
Pharmacology of drugs affecting coagulation disorders	Study of acute leukemia and bone marrow transplant courses Chronic leukemias (CML, CLL, HCL)		the structure of a general laboratory in a public hospital...	00.12.07 26/02/2022	Saturday
Medical statistics Session 2	Megaloblastic anemia	Iron deficiency anemia and chronic disease anemia	Pathology Blood diseases	00.12.08 27/02/2022	Sunday
Immunopharmacology and pharmacology of drugs Anti-anemia, hematopoietic factors	Oncology emergencies	Aplastic anemia and MDS Hodgkin's lymphoma and Non-Hodgkin's lymphoma	Pathology Blood diseases	00.12.09 28/02/2022	Monday
Public Holiday				00.12.10 01/03/2022	Tuesday
Physical Examination	Study of thrombosis courses and anticoagulant therapies/platelet homeostasis disorders		laboratory errors and their causes Basic rules and statistics in quality control of different sections	00.12.11 02/03/2022	Wednesday
				00.12.12 03/03/2022	Thursday
Public holiday				00.12.13 04/03/2022	Friday
Practical pathology: Thalassemia major, Reactive lymph node hyperplasia, Hodgkin's lymphoma, Non-Hodgkin's lymphoma	Study of Plasma Cellular Dyscrasia / Primary Thrombocytosis, Primary Polycythemia, Secondary Polycythemia, Myelofibrosis			00.12.14 05/03/2022	Saturday
Medical statistics Session 3	Thrombosis and anticoagulant therapies	Chronic leukemia (CML, CLL, HCL)	Acute leukemia and bone marrow transplantation	00.12.15 06/03/2022	Sunday
Chemotherapy pharmacology	Primary thrombocytosis, primary polycythemia, secondary polycythemia, myelofibrosis	Plasma cell dyscrasias	Platelet homeostasis disorders	00.12.16 07/03/2022	Monday
Medical Statistics Session 4	Hereditary and acquired coagulation disorders	Hemoglobinopathies, thalassemia syndromes, and acquired Adventitious hemolytic anemias		00.12.17 08/03/2022	Tuesday
Cancer immunology	Case-based discussion	Case-based discussion		00.12.18 09/03/2022	Wednesday

Endocrinology- Shariyati Hospital

13:30-15:30	11:30-13	10-11:30	8-10		
Medical Statistics Session 5	Study of endocrine general courses, review of knowledge of endocrine diseases and future prospects/physiology and laboratory tests of thyroid, thyroid function tests/hypothyroidism and hyperthyroidism, thyroiditis/thyroid structural disorders: simple goiter and multi-nodular, nodules And thyroid cancers		Pathology of endocrine diseases	01.01.14 03/04/2022	Sunday
pharmacology Hypothalamic and anterior and posterior pituitary hormones Dr. Dehpour	Study of physiology courses and adrenal laboratory diagnostic tests: adrenal insufficiency, Cushing's syndrome / Mineralocorticoid excess syndrome and (Congenital Adrenal Hyperplasia) CAH Functional tumors and adrenal cancers			01.01.15 04/04/2022	Monday
Pharmacology of thyroid hormones and antithyroid drugs and pancreatic hormone and Anti-diabetic /Dr. Rezayat	Thyroid disease, Segmentation, thyroid function tests	Endocrine generalities: a review of endocrine disease knowledge and future prospects	Pathology of endocrine diseases	01.01.16 05/04/2022	Tuesday
1 pathology Practice: Multi-nodular goiter, Hashimoto's thyroiditis, thyroid carcinoma	Adrenal laboratory diagnostic tests: Adrenal insufficiency, Cushing's syndrome	Hypothyroidism and hyperthyroidism Thyroiditis	laboratory errors and their causes Basic rules and statistics in quality control of different sections	01.01.17 06/04/2022	Wednesday
				01.01.18 07/04/2022	Thursday
Public holidays				01.01.19 08/04/2022	Friday
Immunology of endocrine diseases	Study of physiology courses and laboratory diagnostic tests of the anterior pituitary, hypothalamus, non-functional pituitary masses, prolactinoma, Cushing's disease, acromegaly/diabetes insipidus, and SIADH			01.01.20 09/04/2022	Saturday
Medical Statistics Session 6	Mellitus diabetes, sexual dysfunction, male hypogonadism	Mineralocorticoid excess syndrome Catecholamine excess syndrome	Thyroid structural disorders: simple goiter and multinodular, thyroid nodules and cancers	01.01.21 10/04/2022	Sunday
Pharmacology of corticosteroids Dr. Shafaroodi	Study of carbohydrate disorder laboratory diagnostic test courses, Acute complications of diabetes: hyperglycemic crisis, hypoglycemia Chronic complications of diabetes: retinopathy, nephropathy, cardiovascular neuropathy (environmental complications and ulcers), familiarity with oral therapies, familiarity with insulin therapy			01.01.22 11/04/2022	Monday
Pharmacology of effective drugs in calcium homeostasis	Diabetes: Laboratory diagnostic tests for carbohydrate disorders	Adrenal diseases	anterior pituitary Diseases, hypothalamus	01.01.23 12/04/2022	Tuesday
Reproductive and infertile immunology	Diabetes: Familiarity with oral therapies, familiarity with insulin therapy	Diabetes: Definition, classification, diagnosis and treatment, acute and chronic	specimen collection handling and anticoagulants	01.01.24 13/04/2022	Wednesday

		complications			
				01.01.25 14/04/2022	Thursday
Public holiday				01.01.26 15/04/2022	Friday
Study of calcium metabolism disorders: hypercalcemia, hypocalcemia / Calcium metabolism disorders: osteomalacia, osteoporosis / sexual dysfunction: male hypogonadism / sexual dysfunction: amenorrhea, hirsutism, polycystic ovary				01.01.27 16/04/2022	Saturday
Medical Statistics Session 7	Sexual dysfunction: Hypogonadism in men	Calcium metabolism disorders: osteomalacia, osteoporosis	Calcium metabolism disorders: hypercalcemia, hypocalcemia	01.01.28 17/04/2022	Sunday
Study of Energy Metabolism Disorders: Metabolic Syndrome and Obesity / Energy Metabolism Disorders: Lipid Disorders				01.01.29 18/04/2022	Monday
Physical Examination Practical clinical skills 2 Physical Examination Session 3 Clinical examination of bones and joints (group 2) Clinical examination of head, neck &Glands	Energy Metabolism Disorders: Lipid disorders	Sexual dysfunction: amenorrhea, hirsutism, polycystic ovaries	The role of nuclear medicine in diagnosis and Endocrine diseases treatment	01.01.30 19/04/2022	Tuesday
Physical Examination Clinical skills2 (Practice) Physical Examination Session 4 Clinical examination of bones and joints (group 1) Clinical examination of head, neck, and glands (Group 2)	Case-based discussion	Energy Metabolism Disorders: Metabolic Syndrome and Obesity	pharmacology Sex hormones and Their inhibitors Dr. Shafaroodi	01.01.31 20/04/2022	Wednesday
Fundamentals of Clinical Infectology					
15-17	13-15	10-12	8-10		
	Medical Statistics Session 7	General principles of skin infections and Soft texture	Principles of Infectious Disease Prevention and Personal Care against Infections	01.02.11 01/05/2022	Sunday
	Pharmacology Basics Microbial chemotherapy Dr. Shafaroodi Beta-lactam antibiotics Dr. Shafaroodi	General principles in dealing with febrile patients and managing fever of unknown cause	General principles of common respiratory infections and influenza	01.02.12 02/05/2022	Monday
Public holiday				01.02.13 03/05/2022	Tuesday
Public holiday				01.02.14 04/05/2022	Wednesday
				01.02.15 05/05/2022	Thursday
Public holiday				01.02.16 06/05/2022	Friday

	pharmacology Sulfonamides, trimethoprim fluoroquinolone Dr. Shafaroodi	General principles of sepsis and septic shock	General principles of urinary and gastrointestinal infections	01.02.17 07/05/2022	Saturday
	pharmacology anti Virus Dr. Bakhtiari				
	Medical Statistics Session 8	pharmacology Chloramphenicol, tetracyclines Aminoglycosides and Polymyxins Dr. Shafaroodi	Pharmacology of Anti-worm drugs Dr. Rashidian pharmacology Antifungals Dr. Qazi	01.02.18 08/05/2022	Sunday
	Pharmacology of anti- protozoa Dr. Mousavi	Nosocomial infections and principles of infection control and isolation	General principles of sexually transmitted infections and AIDS	01.02.19 09/05/2022	Monday
	Medical Statistics Session 9	pharmacology Tuberculosis and leprosy drugs Dr. Qazi	Immunology of infectious diseases Dr. Nourbakhsh	01.02.20 10/05/2022	Tuesday
		pharmacology Antiseptics Dr. Qazi			
		Start Perseptorship		01.03.04 25/05/2022	Wednesday
				01.03.05 26/05/2022	Thursday
Public holiday				01.03.06 27/05/2022	Friday
Fundamentals of Clinical Psychiatry & Neurology					
15-17	13-15	10-12	8-10		
	Immunology of neurological diseases	Neurological examination and localization: Mental status and cranial nerves	Pathology CNS diseases	01.03.07 28/05/2022	Saturday
	Introduction to CNS Pharmacology of Anti- Parkinson Drugs	Neurological examination and localization: motor, sensory and cerebellar	Pathology CNS diseases	01.03.08 29/05/2022	Sunday
	Pharmacology of antidepressants and antipsychotics	Coma and disturbances of consciousness	Pathology CNS diseases	01.03.09 30/05/2022	Monday
	Pharmacology of sedatives, hypnotics, and drugs Anti-anxiety And the pharmacology of alcohol	Stroke classification and semiology	Pathology CNS diseases	01.03.10 31/05/2022	Tuesday
	Practical pathology: astrocytoma, meningioma,	Psychiatric interview and	The course of formation of psychiatry and the	01.03.11 01/06/2022	Wednesday

	neurofibroma, schwannoma	patient communication	concepts of psychiatric diseases		
				01.03.12 02/06/2022	Thursday
Public holiday				01.03.13 03/06/2022	Friday
Public holiday				01.03.14 04/06/2022	Saturday
Public holiday				01.03.15 05/06/2022	Sunday
		Pharmacology of opioid analgesics and antagonists, abuse	Psychopathology	01.03.16 06/06/2022	Monday
	Physical Examination Clinical skills2 (Practice) Physical Examination Session 5 Clinical examination of nerves (group 1) Clinical examination of abdomen (group 2)	Pharmacology of antiepileptic drugs Muscle relaxant pharmacology	Psychopathology	01.03.17 07/06/2022	Tuesday
Start Perseporship Grouping by representative	Physical Examination Clinical skills 2 (Practice) Physical Examination Session 6 Clinical examination of nerves (group 2) Clinical examination of the abdomen (group 1)	Pharmacology of general anesthetics Pharmacology Topical anesthetics	A most important test in clinical hematology and fundamentals of instruments peripheral blood smear preparation and examine the slide	01.03.18 08/06/2022	Wednesday
Fundamentals of Clinical Pediatrics & Surgery					
15-17	13-15	10-12	8-10		
	Immunology aging Immunological effects	Fundamentals of Clinical Surgery	56 / 5,000 Translation results Pathology Gynecological diseases	01.03.30 20/06/2022	Monday
	Pharmacology of rational use of medicinal plants General Pharmacology Toxicology and Poison Control	Clinical foundations of surgery	Pathology Gynecological diseases	01.03.31 21/06/2022	Tuesday
	Pharmacology: OTC drugs and prescriptions	Clinical foundations of surgery	Pathology Gynecological diseases	01.04.01 22/06/2022	Wednesday
				01.04.02	Thursday

				23/06/2022	
Public holiday				01.04.03 24/06/2022	Friday
	Pharmacology: Aspects of perinatal and pediatric pharmacology	Clinical foundations of surgery	Pathology Breast diseases	01.04.04 25/06/2022	Saturday
	Pharmacology of drug interactions	Fundamentals of Clinical Surgery	Pathology(Practice): Basic rules in blood banking (hemovigilance, different tests, and forms, types of products)	01.04.05 26/06/2022	Sunday
	Pathology(Practice): endometrial hyperplasia, endometrial carcinoma, Ovarian follicular cyst, ovarian carcinoma	Fundamentals of Clinical Surgery	Fundamentals of Clinical Surgery	01.04.06 27/06/2022	Monday
	Pathology(Practice): Breast fibroadenoma, Breast carcinoma, Hydatidiform mole, Choriocarcinoma	Fundamentals of Clinical Pediatrics	Fundamentals of Clinical Surgery	01.04.07 28/06/2022	Tuesday
	Pathology(Practice): General acquaintance with clinical and Anatomical laboratories before entering the hospital	Fundamentals of Clinical Pediatrics	Fundamentals of Clinical Pediatrics	01.04.08 29/06/2022	Wednesday
				01.04.09 30/06/2022	Thursday
Public holiday				01.04.10 31/06/2022	Friday
	Communication skills	Communication skills	Communication skills	01.04.11 02/07/2022	Saturday
	Communication skills	Communication skills	Communication skills	01.04.12 03/07/2022	Sunday
	Communication skills	Communication skills	Communication skills	01.04.13 04/07/2022	Monday
		Fundamentals of Clinical Pediatrics	Fundamentals of Clinical Pediatrics	01.04.14 05/07/2022	Tuesday
	Clinical Pathology (practice) urine analysis	Fundamentals of Clinical Pediatrics	Fundamentals of Clinical Pediatrics	01.04.15 06/07/2022	Wednesday
				01.04.16 07/07/2022	Thursday
Public holiday				01.04.17 08/07/2022	Friday
		Update in immunology Seminar	Fundamentals of Clinical Pediatrics	01.04.18 09/07/2022	Saturday
The practical exam time should be determined in coordination with the relevant department and representative				1401/05/16 08/08/2022	Sunday

Clerkship Schematic Schedule

Semester 14002 (Spring 2022)

In clerkship Phase, which is offered for 23 months in a specific Line, is started after pathophysiology Phase and is a set of theoretical courses and hospital wards.

(Most hospital wards also have theoretical courses; a small number of lessons are offered only theoretically and a small number of wards do not have theoretical courses).

Eligible students start this phase by attending theoretical classes and wards in hospitals and educational centers.

This phase is started with Internal medicine (rational prescription of medications is thought in this ward), surgery, orthopedic, urology, then pediatrics, gynecology, dermatology, ophthalmology, and Radiology, ... (To see all clerkship courses and wards, refer to the guideline course section on our website).

Theoretical courses are offered in the first days, then, students are in the relevant hospital wards.

Theoretical courses:

- Forensic medicine and Toxicology are held simultaneously with Internal medicine (once a week). clinical epidemiology is also held in the first year (semester 1 or 2) (once a week).
- Medical ethics is routinely held simultaneously with radiology as a course (two weeks).