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| **Course title** | **Code** | **Semester** | **Type of course** | **Course volume (Contact hours)** | **ECTS** |
| **Tissue Damage and Host Response** | **MED****2001** | **III** | **Mandatory** | **69** | **5** |
| **Faculty, the educational program and level of education** | * School of Medicine and Health Sciences
* Higher Medical Educational Program “Medicine”
* One cycle 6-year
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| **Learning Course Content** |
| * **Biochemistry** Blood and Plasma Proteins
* **Cl. Microbiology** Introduction: Role of Bacteria in Disease; Antibiotics and Resistance Mechanisms; Staphylococcus and Related Gram-Positive Cocci-1; Staphylococcus and Related Gram-Positive Cocci-2. Nocardia and Related Bacteria; Streptococcus-1; Streptococcus-2; Enterococcus and Other Gram-Positive Cocci; Mycoses: Subcutaneous Micosis
* **Clinical skılls** Wound description, cleaning and treatment; Types of bleeding and methods of stopping bleeding.
* **Pathology** Introduction to pathology; Cellular adaptations; Cell damage and cell death: general overview; Necrosis; Apoptosis; Reversible-irreversible cell damage. Intracellular accumulations, calcification, cellular aging; Tissue regeneration and repairment: regeneration, healing, fibrosis.; Tissue regeneration and repairment: Hemodynamic disorders, thromboembolic disorders and shock.
* **Pathology Immunology** "Inflammation. Acute inflammation; Chronic inflammation; PAMP, DAMP; Effector Mechanisms of Cell-Mediated and Humoral Immunity; Activation of T and B cells; " Cell cooperation ; Programmed cell death and lymphocytes, associated disorders
* **Pharmacology** Introduction to Pharmacology; basics of pharamacokinetics and pharmacodynamics. Drug Receptors and Pharmacodynamics; Relation Between Drug Dose& Clinical Response; agonists and antagonists ;dose in pharmacology ; therapeutic index routes of drug administration , factors affecting the choice of route of drug administration " pharmacokinetics; absorption, distribution, metabolism and elimination; ; Drug drug interactions and food drug interactions , major pharmacokinetic parameters ; Basic principles of drug toxicity; Drug induced immune response, Development and Regulation of Drugs."; Drug Biotransformation
* **Radiology** Standard Imaging Methods and Image Interpretation
* **Top Anatomy** Viscerocranium I: superficial structures; landmarks; Viscerocranium - I: lateral fascial region;buccal region; Viscerocranium - II: temporomandibular region; parotid region,Viscerocranium: Deep fascial region;sublingual and submandibular glands; mental region Regio orbitalis : bony structures of orbit , muscules, blood supply, innervation; Regio nasalis: paranasal sinuses
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| **Textbooks and Materials** |
| * Pathology
* Robbins Basic Pathology-Vinay Kumar; Abul K. Abbas; Elsevier; 10th. ed. 2018
* Elsevier's Integrated Pathology- King C. Thomas; Mosby Elsevier; 2007;
* Immunology
* Cellular And Molecular Immunology- Abbas, K. Abul; Elsevier Sounders; 10th.ed. 2022.
* Topographic Anatomy
* Clinically Oriented Anatomy- Moore,Keith L; Wolters Kluwer; 9th.ed. 2023;
* Medical Microbiology
* Medical Microbiology- Murray, Patrick R; Rosenthal, Ken S; 9th ed. Elsevier Sounder; 2021.
* Case Studies in Infectious Disease- Peter Lydyard; Garland Science; 2010;
* Elsevier's Integrated Immunology and Microbiology- Actor Jeffrey K; Mosby Elsevier; 2007;
* Pharmacology
* Basic & Clinical Pharmacology: A lange medical book- Katzung, Bertram G; Mc- Graw Hill Education. 15th. ed; 2021.
* Biochemistry
* Biochemistry: Lippincott's illustrated Reviews- Ferrier Denice R; Wolters Kluwer; 7th ed. 2017.
* Color Atlas of Biochemistry-Jan Koolman; Klaus-Heinrich Roehm; Thieme; 3rd.ed. 2013;
* Radiology
* Grainger & Allison's diagnostic radiology: A textbook of medical imaging-AndyAdam;Churchill Livingstone; 6th ed; 2015
* Introduction to Radiologic imaging sciences &patient care-Arlene M.Adler;Richard R.Carlton; Elsevier Saunders; 6th ed; 2016;
* Clinical skills- Nursing skills
* clinical Nursing skills&techniques- Anne Griffin Perry, Patricia A. Potter; Elsevier Mosby; 10th ed;2022
* Taylor’s Clinical Nursing Skills: a nursig process approoach-Pamela Lynn; Wolters Kluwer ;9th ed.; 2023
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