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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 |
| **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 |