

Course Specification Card for Block 1.1. (Fundamentals of Medicine)

College	College of Medicine	Department	Biomedical sciences		
Course Name (English)	Fundamentals of Medicine	Course Name (Arabic)	أساسيات الطب		
Course Number	15568, 15580	Course Code	1000101		
Credit Hrs.	6	Contact Hrs.	Theoretical	Practical	Total
Teaching Language	<input type="checkbox"/> Arabic <input checked="" type="checkbox"/> English		60	58	118
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended				
Course Nature	<input checked="" type="checkbox"/> Compulsory <input type="checkbox"/> Elective				
Course Type	<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> College Requirement <input type="checkbox"/> Program Requirement				
Level	Year 1	Pre-Requisite(s)	No prerequisite		

Course Description

Focus on application of basic sciences in some aspects of medicine. Study includes basic concepts of anatomy (ankle, colon, breast and uterus), histology (blood, membranes, epithelium & skin, connective tissue, cartilage and bones), physiology (membranes and fluid), pharmacology (pharmacotherapy and 6 steps prescribing), pathology (inflammation, Cell and tissue damage and repair and principles of oncology), biochemistry (energy metabolism and protein sorting) and genetics (Basic aspects of genes, Clinical Genetics diseases, New Genetic Technology and Diagnosis).

Topics

Basic concepts of anatomy (skeleton, ankle, colon, breast, uterus)

Basic concepts of histology (blood, skin, epithelium, connective tissue, cartilage, bone)

Basic concepts of Physiology (structure and functions of membranes, fluid and blood)

Basic concepts of Pharmacology (pharmacotherapy and 6 step prescribing)

Basic concepts of Pathology (inflammation, Cell and tissue damage)

Learning Outcomes

Describe the normal/disturbed structural and biochemical properties of: Proteins, Cells, Tissues and some organs

Recall the basic biological and physiological processes and their dysregulation related to: blood, Skeletal system development & remodelling, Mechanisms of human inheritance and Cellular adaptation mechanisms.

Describe the aetiology, and pathophysiological mechanisms of inflammation, Cell and tissue damage and repair and features of tissue damage (ankle injury, skin injuries and burn).

Describe the etiology, pathogenesis and pathophysiology of neoplasia of the skin, breast, colon and uterine cervix and their epidemiology in Saudi Arabia.

Collect and communicate both a complete and focused medical history, as appropriate.

Integrate the historical, physical and investigative findings into a meaningful differential diagnosis formulation, including identifying the most probable diagnosis in a patient.

<p>and repair and features of tissue damage, principles of oncology).</p> <p>Basic concepts of biochemistry (energy metabolism and protein sorting)</p> <p>Basic concepts of genetics (Basic aspects of genes, Clinical Genetics diseases New Genetic Technology, and Diagnosis).</p>	<p>Conduct reflection methodology and demonstrate transparent and efficient reflective attitude.</p> <p>Demonstrate effective therapeutic and on-going management of an individual patient and population at large besides drafting of diagnosis and/or treatment plans with description of different therapeutic modalities.</p> <p>Communicate with colleagues, tutors, and other staff members in a collaborative, responsive and responsible manner including writing clear and concise medical reports.</p> <p>Demonstrate skills of searching for information, organizing information, criticizing the acquired knowledge during preparation of TG assignments.</p> <p>Demonstrate professional conduct in all teaching and learning activities e.g. TG, Labs, Patient lectures, etc.</p>					
<p>Assessment Tools</p>	<input type="checkbox"/> Periodic Exams	<p>20%</p>	<input type="checkbox"/> OSPE	<p>10%</p>	<input type="checkbox"/> Final Exam	<p>40%</p>
	<input type="checkbox"/> Individual Assignments	<p>%</p>	<input type="checkbox"/> Practical Assignments	<p>10%</p>	<input type="checkbox"/> TG Assessment	<p>20%</p>
<p>Main Reference</p>	<ol style="list-style-type: none"> 1. Alberts, B. (2019): <i>Essential Cell Biology</i>. Fifth edition. [S.I.]: W W NORTON & COMPANY. 2. Jorde, L., Carey, J. and Bamshad, M. (2016): <i>Medical Genetics</i> 5th edition. Elsevier 3. Mescher, A. (2018) <i>Junquiera's Basic Histology</i> 15th edition. McGraw-Hill Education 4. Kumar, V, Abbas, A. and Aster, J. (2018): <i>Robbins basic pathology</i> 10th edition. Elsevier 5. Gilroy, A., MacPherson, B, Ross, L, (2012): <i>Atlas of Anatomy</i> second edition. Thieme, New York- Stuttgart 6. Hall, A. (2016): <i>Guyton and Hall Textbook of Medical Physiology</i> 13th edition. Elsevier 7. Joint Formulary Committee (2019): <i>British National Formulary</i> 77th edition. London, United Kingdom: Pharmaceutical Press. https://vnras.com/wp-content/uploads/2017/06/BNF-73-2017.pdf https://pharm.reviews/images/statyi/british-national-formulary-2015.pdf 8. H P Rang. H., Ritter, J., Flower, R. and Henderson, G. (2015): <i>Rang & Dale's Pharmacology</i> 8th edition. Elsevier (Printed in China) 9. The World Health report 2000, Health Systems: Improving Performance. 10. <u>Veening</u>, E., <u>Gans</u>, R. and <u>Kuks</u>, J. (2009): <i>Medische Consultvoering</i>, first edition. Houten: Bohn Stafleu van Loghum. Held by University of Groningen 11. WHO Guide to Good Prescribing: A Practical Manual (Geneva, WHO, 1995). Free available: http://apps.who.int/medicinedocs/pdf/whozip23e/whozip23e.pdf 12. Skolnik, R. (, 2016): <i>Essential of Global Health</i>, 3rd edition. Burlington, MA: Jones & Bartlett Learning <ul style="list-style-type: none"> ▪ 13. Moore, K., Dalley, A. and Agur, A. (2017): <i>Clinically Oriented Anatomy</i>, 8th edition. Wolters Kluwer 					
<p>Essential References Materials</p>	<p>Manuals:</p> <ol style="list-style-type: none"> 1. Tutor manual. 2. Student manual. 					

	<p>3. Working in tutor group.</p> <p>4. Practical and workshop part I.</p> <ul style="list-style-type: none"> ▪ 5. Practical and workshop part II.
Supporting References	<p>The Merck Manual of Diagnosis and Therapy Publisher: Merck & Co, most recent edition can be found on internet (http://www.merckmanual.nl/)</p> <p>Elective material:</p> <p>Primal Pictures Anatomy (via CMB) https://vnras.com/wp-content/uploads/2017/06/BNF-73-2017.pdf https://pharm.reviews/images/statyi/british-national-formulary-2015.pdf https://ia801207.us.archive.org/2/items/MedicalGenetics5e2015/Medical%20Genetics%2C%205e%202015.pdf</p>

