

## Course Specification Card for Block 3.1 (Oncology and Orthopedics)

College	College of Medicine	Department	Medical Education		
Course Name (English)	Block 3.1 - Oncology and Orthopedics	Course Name (Arabic)	الأورام والحوادث والعظام		
Course Number	1000301	Course Code	1000301		
Credit Hrs.	6 hours	Contact Hrs.	Theoretical	Practical	T
Teaching Language	English <input checked="" type="checkbox"/> Arabic <input type="checkbox"/>		44	51	95
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 3	Pre-Requisite(s)	Block 2.1 (Motion & Senses)		

### Course Description

Deliver knowledge and apply information regarding general oncology (detection, diagnosis, treatment modalities, impact, consequences, screening and follow-up, plus hemato-oncology), basic biology of bone, principles of fracture fixation, drugs acting on bone metabolism, rehabilitation medicine, bone infection, osteoporosis, and other bone and joint disorders.

### Topics:

1. Oncology (detection & diagnosis)
2. Oncology (treatment)
3. Oncology (screening & follow-up)
4. Oncology (impact & consequences)
5. Oncology (hematological malignancies)
6. Orthopedics (Basic Bone Biology)
7. Orthopedics (Principles of fracture fixation)
8. Orthopedic infections
9. Orthopedics (Metabolic bone disorders & drugs acting on bone metabolism)
10. Orthopedic oncology

### Learning Outcomes

- Describe the normal/disturbed structural and biochemical properties of abnormal cell division cycle leading to cancers, oncogenetics, malignancies of epithelial, connective, bones, cartilage, muscles, nervous), organs (skin, breast, colon, uterus) and system (skeleton and classification of joints).
- Recite the basic biological and physiological processes and their dysregulation related to the musculoskeletal system development, basic bone biology, growth and disorders affecting musculoskeletal system, drugs affecting the bone metabolism
- Describe the principles of fracture fixation and rehabilitation i.e. mechanisms of bone fractures, their types and classification, healing process of fractures and possible complications of fractures and management.
- Analyze health problems in a systemic manner utilizing: Outlines of the scientific history of medicine, Problem solving models and decision theory.
- Take medical history effectively and efficiently and learns skills to perform clinical examination.
- Learn to draft a plan for diagnosis and/or treatment: Recognize the main therapeutic issues such as: Various types of care such as curative, symptomatic, rehabilitative, palliative, and preventive care.
- Write prescription considering the following: Selection of medication (considering age, sex and patient's environmental factors, pregnancy if applicable, patient acceptance, contraindications, interactions, side effects, the risk of medicalization), The administration method, doses, intervals between doses, and duration of therapy
- Emphasize the general foundation of medical ethics. The peculiar Islamic and cultural ethical views in Saudi Arabia (in treating cancer patients).

11. Orthopedics (Rehabilitation Medicine) 12. Law & Professionalism 13. PBLS	<ul style="list-style-type: none"> <li>Follow legal concepts in healthcare and apply these in practice. The opinion and consents of the patient</li> <li>Collect, interpret, document, and communicate both complete and focused general &amp; local physical examination including mental status examination where appropriate.</li> <li>Perform the needed basic skills for diagnostic and therapeutic procedures: Evaluating the results of elementary laboratory testing.</li> <li>Recognize airway obstruction and/or circulatory arrest and perform resuscitation in line with a specified protocol of basic life support (BLS)</li> </ul>					
Assessment Tools	<input type="checkbox"/> Periodic Exams	%	<input type="checkbox"/> Short Exams (mid- block exam)	20 %	<input type="checkbox"/> Final Exam	40%
	<input type="checkbox"/> Individual Assignments	20%	<input type="checkbox"/> Group Assignments	% 10	<input type="checkbox"/> PBLS	10%
Main Reference	-J. de Vries. Essential Oncology for Health Professionals, 2nd edition, 2009. -Graham G Dark. Oncology at a Glance. Wiley: 1st edition, 2013. -Ashley Blom Ed. Apley & Solmon's: System of Orthopedics and Trauma: Essential Orthopedics and Trauma, 10th edition. 2018 -Parveen Kumar, Michael Clark Ed. Kumar & Clark's Clinical Medicine, 8th edition, 2012. -Robbins: Basic Pathology, 10th edition. Elsevier: 2017 . -Oxford Handbook of Clinical Rehabilitation, 2nd edition, 2009.					
Supporting References	Lecture Notes British National Formulary, 63rd edition, 2012. -Singer: The Cambridge Textbook of Bioethics, 2008. -Jorde: Medical Genetics, 4th edition, 2009. *Computer-based programs/CD, professional standards or regulations and software. *SPSS for windows					

