

## Course Specification Card for Block 2.1 Motion and Senses

College	College of Medicine	Department	Medical Education		
Course Name (English)	Motion and Senses (Block 2.1)	Course Name (Arabic)	الحركة و الإحساس ( بلوك ٢,١ )		
Course Number	15574	Course Code	1000201		
Credit Hrs.	6	Contact Hrs.	Theoretical	Practic	T
Teaching Language	English <input checked="" type="checkbox"/> Arabic <input type="checkbox"/>		95	20	115
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 2	Pre-Requisite(s)	Block 1.1 (1000101)		

### Course Description

#### **At the end of the course, students should be able to:**

- Describe the organization of the nervous system and its different components
- Acquire the knowledge of neuro-physiology such as neuro-muscular transmission, muscle and nerve physiology, reflexes, sensory and motor system etc.
- Explain the patho-physiology, clinical features of various neurologic disorders such as Cerebrovascular accidents, disorders of muscles, cerebellar disorders, sensory syndromes, memory disorders etc.
- Explain the anatomy & physiology of hearing and the equilibrium and correlate the clinical features and patho-physiology of various disorders affecting hearing and the equilibrium such as hearing loss, disorders of the tympanic membrane, dizziness etc.
- Explain the neuro-physiology and anatomy of eye and visual pathways
- Understand the patho-physiology and clinical features of various ophthalmologic disorders such as cataract, glaucoma, diabetic retinopathy etc.
- Recognize the concept of neuro-genetics and various associated clinical disorders such as hereditary disorders of the peripheral nerve, genetic mutations, and sex linked genetic disorders etc.
- Explain fundamental of biostatistics including data analysis and summarization, SPSS program, Normal distribution and probability theory and importance of P value.

<u>Topics</u>	<u>Learning Outcomes</u>
1. Muscle Force	Describe the organization of central nervous system and its different components Outline the neurophysiology of sensory system, motor system and cerebral cortex
2. Sensory System	Describe the etiology, epidemiology, clinical features, pathophysiological mechanism, investigation and treatment of variable neurological disorders AND some ENT and Ophthalmology disorders.
3. Central Force Regulation	Outline the anatomy and neuro-physiology of hearing and equilibrium Outline the anatomy and neuro-physiology of visual pathways
4. Central Motor Coordination	Describe fundamental of biostatistics including data analysis, data summarization, Probability theory, normal distribution and P value Analyze health problems in a systematic manner by asking for relevant history to find out the different symptoms and signs of presentation of illnesses (Neurological, Ophthalmology and ENT disorders), its etiological relationship to come to a relevant diagnosis based on problem based learning.
5. Cognition	Demonstrate a professional behavior in respect to all individuals inside the course program and outside but related to the course activities
6. Global Health & Statistics	
7. Hearing & Equilibrium	Classify complaints, diseases and consequences of the diseases and using this information to make out a treatment plan

8. Vision	<p>Demonstrate abilities of searching information in the internet and exchanging information with his/her peers and present information clearly in written, electronic and oral forms.</p> <p>Appraise honesty and integrity in all interactions with teacher, colleagues, patients and others with whom they will communicate.</p> <p>Evaluate personal work and be able to reflect on various mechanisms. Ability to give feedback and deal with ignorance and defects, self-awareness.</p> <p>Use a learning behavior &amp; show eagerness to extract knowledge from every possible source.</p>					
Assessment Tools	<input checked="" type="checkbox"/> Periodic Exams	%60	<input checked="" type="checkbox"/> Short Exams	%20	<input checked="" type="checkbox"/> Final Exam	%40
	<input checked="" type="checkbox"/> Individual Assignments	%40	<input checked="" type="checkbox"/> Group Assignments	%20	<input checked="" type="checkbox"/> Oral Participations	%20
Main Reference	<p>Behrbohm: Ear, Nose and Throat Diseases H. Behrbohm, O. Kaschke, T. Nawka, Andrew Swift Thieme Medical Publishers; 3 edition (August 12, 2009)</p> <p>Guyton: Textbook of Medical Physiology Guyton and Hall Textbook of Medical Physiology Elsevier Saunders / 13<sup>th</sup> ed., 2015</p> <p>Mumenthaler : Fundmentals of Neurology Mumenthaler and Mattle Theime / 2<sup>nd</sup> Edition, January 2017</p> <p>Kumar: Clinical Medicine P. Kumar, M. Clark Elsevier Saunders / 7<sup>th</sup> edition 2009 978-0702029936</p> <p>Laake: Global Health P. Laake, H. B. Benestad, B. R. Olsen Research Methodology in the Medical and Biological Sciences Academic Press / 978-01-237-387-45 / 2007</p> <p>Lang: Ophthalmology G.K. Lang Thieme / ISBN 978-3-13-126162-5 / 2<sup>nd</sup> English Edition 2007</p> <p>Snell: Clinical Neuroanatomy Richard S. Snell Lippincott William &amp; Wilkins / 8<sup>th</sup> Edition 9780781794275</p> <p>Moore: Clinically Oriented Anatomy Keith L. Moore, Anne M.R. Agur, Arthur F. Dalley, Anne MR Agur Wolters Kluwer / Lippincott William &amp; Wilkins / 7<sup>th</sup> Edition 2014 - ISBN-13: 978-1451119459 ISBN-10: 1451119453</p> <p>9. Atlas of Anatomy by A.M. Gilroy , B.R. MacPherson ,L.M. Ross , M. Schuenke, Schulte, Schumacher Thieme Publishers. 2<sup>nd</sup> Edition April 2012 ISBN 9781604067453 978-1-60547-652-0</p>					

Supporting References	<ul style="list-style-type: none"><li>▪ Student Manual including practical manual</li><li>▪ Tutor manual</li></ul> <ol style="list-style-type: none"><li>1. List Electronic Materials, Web Sites, Facebook, Twitter, etc.<ol style="list-style-type: none"><li>a. The Lancet, Vol 379 June 2, 2012, p2033-2035 by O. Johnson, S.L. Bailey, C. Willott, T. Crocker-Buque, V. Jessop, M. Birch, H. Ward, J.S. Yudkin: <u>Global Health Learning outcomes for medical students in the UK</u></li><li>b. World Health report 2011 (financing universal access): Executive Summary <a href="http://www.who.int/whr/2010/10_summary_en.pdf">http://www.who.int/whr/2010/10_summary_en.pdf</a></li><li>c. WHO: How to develop and implement a national drug policy, p 33-40: Affordability, generic policies, financing of medicines <a href="http://apps.who.int/medicinedocs/pdf/s2283e/s2283e.pdf">http://apps.who.int/medicinedocs/pdf/s2283e/s2283e.pdf</a></li><li>d. <a href="http://www.uptodate.com">www.uptodate.com</a></li><li>e. <a href="http://www.webmd.com">www.webmd.com</a></li></ol></li><li>▪ <a href="http://www.Bmj.com">www.Bmj.com</a></li></ol>
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