Course Specifications

Course Title:	**Motion and Senses (Block 2.1)**
Course Code:	**1000201**
Program:	**Bachelor of Medicine, Bachelor of Surgery (MBBS)**
Department:	**Clinical Neurosciences**
College:	**Medicine**
Institution:	**King Faisal University**

Table of Contents

A. Course Identification

1. Credit hours: 6
2. Course type **a.** University ☐ College ☑ Department ☐ Others ☐ **b.** Required ☑ Elective ☐
3. Level/year at which this course is offered: 2nd year first Quarter
4. Pre-requisites for this course (if any)**: Blocks 1.1**
5. Co-requisites for this course (if any)**: Professional development and progress of knowledge.**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	115	100
2	**Blended**		
3	**E-learning**		
4	**Correspondence**		
5	**Other**		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	75
2	**Laboratory/Studio**	20
3	**Tutorial**	20
4	**Others** (specify)	
	Total	115
Other Learning Hours*		
1	**Study**	100
2	**Assignments**	100
3	**Library**	
4	**Projects/Research Essays/Theses**	
5	**Others** (specify)	
	Total	200

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description - learn about basic sciences, Genetics, Global health and Statistics, understand common diseases of the central and peripheral nervous system, ENT and Ophthalmology, discuss a problem solving clinical cases related to the mentioned disorders.

2. Course Main Objective:

To **enable** students to acquire basic medical knowledge and clinical skills in order to diagnose and manage common diseases in Neurology, ENT and Ophthalmology in primary care settings, identify the possible complications and learn their prevention and management.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge:**	
1.1	Describe the organization of central nervous system and its different components	K1
1.2	Outline the neuro-physiology of sensory system, motor system and cerebral cortex	K1
1.3	Describe the etiology, epidemiology, clinical features, pathophysiological mechanism, investigation and treatment of variable neurological disorders AND some ENT and Ophthalmology disorders.	K2
1.4	Outline the anatomy and neuro-physiology of hearing and equilibrium	K1
1.5	Outline the anatomy and neuro-physiology of visual pathways	K1
1.6	Describe fundamental of biostatics including data analysis, data summarization, Probability theory, normal distribution and P value	K1
2	**Skills:**	
2.1	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.	S1
2.2	Demonstrate a professional behavior in respect to all individuals inside the course program and outside but related to the course activities.	S3
2.3	Classify complaints, diseases and consequences of the diseases and using this information to make out a treatment plan.	S3
2.4	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.	S5
3	**Competence:**	
3.1	Appraise honesty and integrity in all interactions with teacher, colleagues, patients and others with whom they will communicate.	C4
3.2	Evaluate personal work and be able to reflect on various mechanisms. Ability to give feedback and deal with ignorance and defects, self-awareness.	C4
3.3	Use a learning behavior & show eagerness to extract knowledge from every possible source.	C4

C. Course Content

No	List of Topics	Contact Hours
1	**Muscle Force**	21
2	**Sensory system**	13
3	**Central Force Regulation**	16

4	**Central motor coordination**	9
5	**Cognition**	16
6	**Global health and Statistics**	9
7	**Hearing and equilibrium**	12
8	**Vision**	14
9	**Examinations**	5
Total		115

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Describe the organization of central nervous system and its different components	Lectures Workshops	MCQ, OSPE
1.2	Outline the neuro-physiology of sensory system, motor system and cerebral cortex	Lectures Workshops	MCQ, OSPE
1.3	Describe the etiology, epidemiology, clinical features, pathophysiological mechanism, investigation and treatment of variable neurological disorders AND some ENT and Ophthalmology disorders.	Lectures Workshops Tutor sessions	MCQ, Tutor groups assignments
1.4	Outline the anatomy and neuro-physiology of hearing and equilibrium	Lectures Workshops	MCQ, OSPE
1.5	Outline the anatomy and neuro-physiology of visual pathways	Lectures Workshops	MCQ, OSPE
1.6	Describe fundamental of biostatics including data analysis, data summarization, Probability theory, normal distribution and P value	Lectures Workshops	Statistics workshop
2.0	**Skills**		
2.1	Analyze health problems in a systematic manner by asking for relevant history to find out the different symptoms and signs of presentation of illnesses	Lectures Tutor sessions	Tutor groups assignments,

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	(Neurological, Ophthalmology and ENT disorders), its etiological relationship to come to a relevant diagnosis based on problem based learning.		
2.2	Demonstrate a professional behavior in respect to all individuals inside the course program and outside but related to the course activities.	Lectures Tutor sessions	MCQ Tutor groups assignments
2.3	Classify complaints, diseases and consequences of the diseases and using this information to make out a treatment plan.	Lectures Workshops Tutor sessions	Tutor groups assignments,
2.4	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.	Workshops Tutor sessions	-as above-
3.0	**Competence**		
3.1	Appraise honesty and integrity in all interactions with teacher, colleagues, patients and others with whom they will communicate.	Workshops Tutor sessions	Tutor groups assignments, Anatomy OSPE Statistics workshop
3.2	Evaluate personal work and be able to reflect on various mechanisms. Ability to give feedback and deal with ignorance and defects, self-awareness.	Workshops Tutor sessions	-as above-
3.3	Use a learning behavior & show eagerness to extract knowledge from every possible source.	Workshops Tutor sessions	-as above-

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Tutor group assignments	the whole course	20%
2	Practical assessment	8th week	20%
3	Written assessment 2.1.1 (MCQ)	4th week	60%
4	Written assessment 2.1.2 (MCQ)	9th week	

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice: Students in need of academic accommodations may consult the faculty during office hours and are required to give reasonable notice prior to requesting an accommodation.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	1.**Behrbohm: Ear, Nose and Throat Diseases** H. Behrbohm, O. Kaschke, T. Nawka, Andrew Swift Thieme Medical Publishers; 3 edition (August 12, 2009) **ISBN-10:** 313671203X, **ISBN-13:** 978-3136712030 **2.Guyton: Textbook of Medical Physiology** Guyton and Hall Textbook of Medical Physiology Elsevier Saunders / 13th ed., 2015 - ISBN 10: 1455770051 ISBN 13: 9781455770052 3.**Mumenthaler: Fundamentals of Neurology** Mumenthaler and Mattle Theime / 2nd Edition, January 2017 - Print ISBN:9783131364524, E-Book ISBN:9783132022126 **4.Kumar: Clinical Medicine** P. Kumar, M. Clark Elsevier Saunders / 7th edition 2009, 978-0702029936 **5. 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. **6.Lang: Ophthalmology** G.K. Lang Thieme / ISBN 978-3-13-126162-5 / 2nd English Edition 2007 **7.Snell: Clinical Neuroanatomy** Richard S. Snell Lippincott William & Wilkins / 8th Edition 9780781794275 **8.Moore: Clinically Oriented Anatomy** Keith L. Moore, Anne M.R. Agur, Arthur F. Dalley, Anne MR Agur Wolters Kluwer / Lippincott William & Wilkins / 7th Edition 2014 - ISBN-13: 978-1451119459, ISBN-10: 1451119453 **9.Atlas of Anatomy by A.M. Gilroy** , B.R. MacPherson ,L.M. Ross , M. Schuenke, Schulte, Schumacher Thieme Publishers. 2nd Edition April 2012 ISBN 9781604067453 978-1-60547-652-0. **10. Jorde: Medical Genetics P** Laake (Author), HK Benestad, BR Olsen 5th Edition.
Essential References Materials	- Student manual. - Tutor manual. - Communication skills manual - Practical manuals
Electronic Materials	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: Global Health Learning outcomes for medical students in the UK b. World Health report 2011 (financing universal access): Executive Summary http://www.who.int/whr/2010/10_summary_en.pdf

	c. WHO: How to develop and implement a national drug policy, p 33-40: Affordability, generic policies, financing of medicines http://apps.who.int/medicinedocs/pdf/s2283e/s2283e.pdf d. www.uptodate.com e. www.webmd.com f. www.Bmj.com
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	• **Patient Lectures:** **Auditorium**: equipped with proper seating for all students at the same time. It is equipped with computer and data show and all requirements for lecturing. • **Theme lectures and response sessions:** **Auditorium:** equipped with proper seating for all students at the same time. • **Small group sessions:** 13 small rooms (in male section) for male students and 13 small rooms (in female section) for female students
Technology Resources (AV, data show, Smart Board, software, etc.)	• Each small room is equipped with the following: 1. A big table. 2. 12 chairs. 3. White board and related required material. 4. Computer and data show. 5. Internet facilities. 6. Flip chart. 7. Small table. 8. Cupboard, blank papers, pens, pencils. • The computer lab equipped with data show, white board and proper number of computers
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	• Labs (anatomy, and physiology) equipped with microscopes, and proper specimens.

Item	Resources
	• Study material: Anatomy specimens, Histological sections, physiology equipment etc.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course Objectives, Content and Learning Outcomes	Curriculum Committee	Course Review Course Report
Effectiveness of teaching	Students	Course Evaluation Survey (QMS Annex B)
Achievement of course learning outcomes	Course Faculty	Moderation (QMS Annex G and Annex H)
Assessment	Course Faculty	Verification
Learning Resources and Facilities	Students Faculty	Course Evaluation Survey Course Report
Student Academic Counseling and Support	Students	Course Evaluation Survey
Course Quality Management	Program Coordinator	Course Report Review

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	College Council
Reference No.	2
Date	September 24, 2019