COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Al-Kindy college of Medicine
2. University Department/Centre	University of Baghdad
3. Course title/code	NEUROSCIENCE MODULE GUIDE/Year III
4. Programme(s) to which it contributes	NEUROSCIENCE MODULE GUIDE/Year III
5. Modes of Attendance offered	Lectures, seminars, tutorials, practical & SDL
6. Semester/Year	Third year
7. Number of hours tuition (total)	76 h theory/ 38 h practical
8. Date of production/revision of this specification	28/8/2020
9. Aims of the Course	
Teach students the basics of neurological diseases.	
Teach students the integration of basic knowledge of neuroscience.	
To provide students with information regarding applying their knowledge to clinical conditions	

This includes neuroscience basics from the anatomy, histology, embryology, microbiology, biochemistry, neurophysiology, pharmacology and pathology.

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1. Awareness of basics of common neurological and neurosurgical diseases

A2. Ability to integrate information from different discipline regarding neuroscience

A3. Ability to control diarrheal disease in children by oral rehydration therapy

A4.Ability to enhance breast feeding in the community

B. Subject-specific skills

B1. Ability to recognize different macroscopical and microscopical anatomical parts of nervous system

B2. Ability to distinguish different microbiological agents affectinf nervous system

B3.Ability to perform related biochemical tests

B4. Ability to integrate information of different involved diciplines

Teaching and Learning Methods

1- Lectures.
2- Small group teaching
3- Seminars.
4- Tutorials
5- Practical labs
6- Self-directed learning

Assessment methods

1-End module Written Exam
2-OSPE
3-attitude, logbook, end module test, final year test, examination

C. Thinking Skills

C1. To equip themselves for teamwork.

C2. Develop communication skills and etiquette with sense of responsibility.

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3-attitude, logbook, end module test, final year test, examination

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1.Communication skills

D2.Health promotion packages

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11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	1		Spinal cord	Lecture	Attitude Quizzes
1	1		Brainstem	Lecture	
1	1		Cerebellum	Lecture	
1	1		Histology of Nervous tissue	Lecture	
1	1		Histology of Nervous system	Lecture	
1	1		Embryology of Nervous S.	Lecture	
1	1		Histology of Ear and Eye	Lecture	
1	1		vision and hearing	Lecture	
1	1		Pain	Lecture	
2	1		Cerebrum (General appearance) and cortical area	Lecture	
2	1		Cerebrum (Internal structure)	Lecture	
2	1		Autonomic NS	Lecture	
2	1		Ventricular System	Lecture	
2	1		Introduction to Autonomic nervous system	Lecture	
2	1		Sympathetic System	Lecture	
2	1		Parasympathetic System	Lecture	
2	1		Neurotransmitters biosynthesis and function	Lecture	
2	1		Thalamus and Hypothalamus	Lecture	
3	1		Sensory tracts	Lecture	
3	1		Neurotansmitter degradation and re-uptake	Lecture	

3	1		Bacterial Meningitis	Lecture	
3	1		Direct cholinergic agonist	Lecture	
3	1		Indirect cholinergic agonist	Lecture	
3	1		Anticholinergic agents	Lecture	
3	1		Blood supply and meninges of brain and spinal cord	Lecture	
3	1		Reticular formation & Limbic System	Lecture	
4	1		Basal Ganglia	Lecture	
4	1		Spinal Cord and Motor tracts	Lecture	
4	1		Adrenergic Agonist	Lecture	
4	1		B- blockers	Lecture	
4	1		Rabies and poliovirus	Lecture	
4	1		-alpha antagonist	Lecture	
4	1		Parasitic infection of NS	Lecture	
4	1		Viral infections of CNS	Lecture	
4	1		Slow viral disease	Lecture	
5	1		neoplastic lesion of NS	Lecture	
5	1		non neoplastic lesion of NS	Lecture	
5	1		NSAID	Lecture	
5	1		Narcotics analgesics	Lecture	
5	1		Sedatives Hypnotics	Lecture	
5	1		Local anasthesia	Lecture	
5	1		general anasthesia	Lecture	
6	1		Antiepileptic Drugs	Lecture	
6	1		Anti parkinsonian Drugs	Lecture	
6	1		Anti psychotic drugs	Lecture	
6	1		Anti Depressant drugs	Lecture	
6	2		Anatomy of Ear	Lecture	
6	2		Anatomy of Eye	Lecture	
6	1		Microbial infection of ear and eye	Lecture	

1	2		Osteology (skull)	Lab	
1	2		Spinal cord	Lab	
1	2		Histology of Neurons, brain and spinal cord	Lab	
2	2		Brain stem and Cranial nerves	Lab	
2	2		physiology of vision	Lab	
2	2		Cerebrum (surface)	Lab	
3	2		EEG	Lab	
3	2		Diagnosis of Bacterial Meningitis	Lab	
4	2		Cerebrum (Deep)	Lab	
4	2		Cranial nerves examination	Lab	
4	2		Diagnosis of parasitic inf.	Lab	
5	2		Nervous system tumers	Lab	
5	2		Reflexes	Lab	
6	2		Anatomy of ear	Lab	
6	2		Anatomy of orbit	Lab	
2	2		Functional areas of brain	Seminars	
3	2		Memory	Seminars	
3	2		Hepatic encephalopathy	Seminars	
4	2		Thalamus and hypothalamus	Seminars	
5	2		Mysthenia Gravis, immunological aspect	Seminars	
6	2		-Disulfiram like effect	Seminars	
2	1		osteology (vertebral column)	Tutorials	
2	1		Normal Radiography	Tutorials	
3	1		Sleep cycles	Tutorials	
4	1		CSF biochemical Analysis	Tutorials	
5	1		Multiple Sclerosis, Basic aspects	Tutorials	

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	1. KEITH L. MOORE, ARTHUR F. DALLEY, ANNE AGUR (2009): *Clinically Oriented Anatomy* , Ed. 6. Lippincott Williams & Wilkins. 2. ANTHONY MESCHER (2010): Junqueira's Basic Histology: Text and Atlas, Ed. 12. Kindle Edition. 3. T.W.SADLER (2012): Langman's *Medical Embryology:* Ed.12. Lippincott Williams & Wilkins. 4. Harper's illustrated biochemistry. 28th edition. 5. Lippincot's illustrated biochemistry. 4th edition 6. Gyton and Hall textbook of medical physiology, 12th ed. 2011 7. Ganong medical physiology, 23 ed. 2011 8. Lippincott Illustrative review in pharmacology, 2012. 9. Bennett Clinical pharmacology, 2011. 10. Katzung: Basic and clinical pharmacology, 2012. 11. Rang and Dale ;Parmacology,2011. 12. Kuby: Immunology. 13. Kumar, Abbas, Aster: Robbins basic pathology.
Special requirements (include for example workshops, periodicals, IT software, websites)	All
Community-based facilities (include for example, guest Lectures , internship , field studies)	Guest lectures

13. Admissions	
Pre-requisites	

Minimum number of students	60
Maximum number of students	180