

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Neuro- Anatomy & Physiology
Course number	AMSP4224
Faculty	
Department	
Course type	College Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Understand the mechanism of action potential for touch sensation
2 - Identify the types of touch receptors
3 - Explain the organization of the somatosensory cortex
4 - Describe the types of muscle receptor and spinal reflexes
5 - Understand the mechanism of golgi tendon organ
6 - Identify the different types of muscle fibers
7 - Identify the cortico spinal tract of the nervous system
8 - Understand the functions of the cortico spinal tracts
9 - Explain the anatomy, function of cerebellum and basal ganglia
10 - Identify the disorders of the cerebellum and basal ganglia

Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> * Knowledge the types of touch receptor * Numerate the types of muscle fibers * Understande the function of the cerebellum and basal ganglia * Differentiate the between the disoreders of cerebellum and basal ganglia * Understand the mechanism of the golgi tendon organ
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Course Contents

- 1 - Touch : Action potential, types of receptors
- 2 - Touch : Dorsal column nuclei
- 3 - Touch : Organization of somatosensory cortex
- 4 - Muscle : Muscle receptor, spinal reflex
- 5 - Muscle : Golgi tendon organ
- 6 - Muscle : Types of muscle fiber
- 7 - Motor Cortex : Corticospinal tract
- 8 - Motor Cortex : Function of corticospinal tract
- 9 - Motor Cortex : Function of intraparietal sulcus
- 10 - Cerebellum and basal ganglia : anatomy of cerebellum, basic circuit
- 11 - Cerebellum and basal ganglia : Circuit of basal ganglia
- 12 - Cerebellum and basal ganglia : Parkinson's disease

Teaching and Learning Methods

- 1 - Power Point presentation
- 2 - Lecture Notes
- 3 - Living Examples

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Attendance	The whole semester	5%
First Midterm	After the second month	20%
Quiz	During the semester	5%
Second Midterm	After the fourth month	20%
Final Exam	At the end of semester	50%