**BBS 3221 Physiological Assessment of brain and Neuronal functions.**

**Course description**

This course covers the physiological assessment of the brain and neuronal functions. The students will acquire the skills to carry perform these practicals in the labs, using animals and human subjects. They will learn how and where to purchase the equipment, materials and regents to be used in these experiments.

**Course Objectives**

* To discuss physiological assessment of the special senses
* To describe the physiological assessment of nervous system
* To demonstrate the physiological assessment of neural functions.

**Learning outcomes:**

By the end of this course the trainees will be able to carry out physiological assessment of the nervous system. They will be able to purchase materials to be used in the neural physiology labs.

**Content outline**

Stimulation of motor points in man, ischemic muscular pain, Reflexes in human subjects, Sciatic sensations, pain sensation, temperature sensation, proprioceptive mechanisms, vibration sensibility, Rinne’s test, localization of sound, the audiometer, taste, labyrinthine mechanisms, stimulation of the retina, blind sport, inversion of the retinal image, colour vision, visual acuity, assessment of cerebellum functions, assessment of the extra pyramidal tracts including the basal ganglion. Localisation of spinal code damage.

**Requirements:**

4 Weeks, 60 CH

**Mode of assessment**

Practical examination 40%

Final summative examination 60%

**Course coordinator**

Dr. Rosemary Nakiboneka MBChB, MSc (MUK)

**Reading materials**

1. [Hematology: physiologic, pathophysiologic, and clinical principles /](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=NEXTPAGE&sessionid=2006101717302405175&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=4&u1=4&t1=Hematology%20%3a%20physiologic,%20pathophysiologic,%20and%20clinical%20principles%20%2f&pos=1&prevpos=11&beginsrch=1)[New York : Macmillan, 1975](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=NEXTPAGE&sessionid=2006101717302405175&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2009&u1=2009&t1=New%20York%20%3a%20Macmillan,%201975&pos=1&prevpos=11&beginsrch=1)

2. [Textbook of medical physiology](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=KEYWORD&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101717302405175&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2000&scant1=Textbook%20of%20medical%20physiology%20%2f&scanu1=4&u1=2000&t1=@23812&pos=1&prevpos=1&), [Philadelphia: Saunders, 2000](http://81.199.17.5:8000/cgi-bin/gw_42_20a/chameleon?host=81.199.17.5%2b1111%2bDEFAULT&search=SCAN&function=INITREQ&SourceScreen=INITREQ&sessionid=2006101717302405175&skin=default&conf=.%2fchameleon.conf&lng=en&itemu1=2009&u1=2009&t1=Philadelphia%20%3a%20Saunders,%20c2000.&pos=1&prevpos=1&beginsrch=1)