DEREE COLLEGE SYLLABUS FOR: 3/0/3		
PS 3630 BIOLOGICAL PSYCHOLOGY		
		LEVEL 5
Updated Spring 2024		UK CREDITS: 15
PREREQUISITES:	PS 1000 Psychology as a Natural Science - L	_4
	PS 1001 Psychology as a Social Science - L	
	PS 2236 Human Learning & Memory – L4	
	PS 2260 Introduction to Statistical Thinking - PS 2347 Analysis of Quantitative Data - L4	L4
	BI 1000 Introduction to Biology I or BI 1017 H	luman Biology:
	Body Anatomy & Current Issues – L4	0,7
CATALOG	The physiological basis of behaviour, organiz	ation of the
DESCRIPTION:	nervous system, cellular functioning, neurotra	
	neuroanatomy, research methods for studying behaviour.	g brain
RATIONALE:	The module introduces students to the nature	and role of the
	biological processes that underlie thoughts, fe	eelings, and
	behaviours. Students are familiarized with the	
	mechanisms that bring about behaviour so the to incorporate this level of analysis in their fut	•
	The module is intended for psychology major	
	also be of interest to students in other science	
LEARNING	Upon completion of this module, the student s	should be able to:
OUTCOMES:	Identify the main divisions of the brain and nervous	
	system and analyze their functions.	and nervous
	2. Describe the structure of neurons, how	v neural impulses
	are generated, and the role of neurotr	ansmitters in
	neural transmission. 3. Demonstrate understanding of the res	oarah mathada in
	Biological Psychology.	earch methods in
	Discuss the relationship of biological r	nechanisms to
11771107 07	cognition and behavior.	
METHOD OF TEACHING AND	In line with the teaching and learning strategy the following tools are used:	of the college,
LEARNING:	 Classes consisted of lectures and class 	ss discussions.
	Office hours	
	Use of Blackboard site	
	Software applications	
ASSESSMENT:	Summative:	
	1st assessment: Examination	40%
	Multiple Choice Questions and essays	
	2 nd assessment:	10%
	Application Assignments	F00/
	Final assessment: Examination Essay questions	50%
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	Formative:	

The formative test aims to prepare students		
for the midterm and final examination.		

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The 1st assessment tests Learning Outcomes: 1, 2. The 2nd assessment tests Learning Outcomes: 1,2,3,4. The final assessment tests Learning Outcomes: 3, 4

Students are required to resit failed assessments in this module.

INDICATIVE READING:

REQUIRED READING:

Kalat, J. W. (2016) *Biological Psychology, International Edition* 13e. Cengage

RECOMMENDED READING:

Breedlove, S. M. (2013) *Biological Psychology, 7th edition.* Sinauer Associates.

Feldman Barret, L. (2018). How emotions are made: the secret life of the brain. Houghton Mifflin Harcourt.

Gazzaniga M. (2015). *Tales from both sides of the brain*. Harper Collins.

Gazzaniga, M.S. (2005). Forty-five years of split-brain research and still going strong. *Nature Review Neuroscience*, *6*, 653-659.

Kandel, E.R. & Squire, L.R (2000). Neuroscience: Breaking the down barriers to the study of brain and mind. *Science*, 290, 1113-1120.

Kandel, E.R. (2001). The molecular biology of memory storage: a dialogue between genes and synapses. *Science*, *294*, 1030-1038.

Le Doux J. (2015). *Anxious: using the brain to understand and treat fear and anxiety.* Penguin Books.

Massimini, M & Tononi, G (2018). Sizing up consciousness. Oxford University Press.

Pinel, J.P.J. (2013). *Biological Psychology*, 8th edition. Pearson.

Plomin, R. (2018). *Blueprint: how DNA makes us who we are*. Penguin.

Ramachandran, V.S. (2012). *The Tell-Tale Brain: Unlocking the Mystery of Human Nature*. Harper-Perennial.

	Sapolsky, R.M. (2004). Why zebras don't get ulcers. Holt
	paperbacks.
INDICATIVE MATERIAL	REQUIRED MATERIAL: N/A
(e.g. audiovisual, digital	
material,	RECOMMENDED MATERIAL:
etc.):	Science
	Nature
	Trends in Neurosciences
	Journal of Physiology
	3D Brain application (Cold Spring Harbor laboratory)
COMMUNICATION REQUIREMENTS:	Academic use of English, both oral and written.
SOFTWARE	Microsoft Office: Word, Excel, PowerPoint.
REQUIREMENTS:	
WWW RESOURCES:	American Psychological Association:
	www.apa.org
	British Psychological Society:
	www.bps.org
	Dana Brain Organization:
	www.dana.org
	www.brainfacts.org
INDICATIVE CONTENT:	4 Historical Declaration
INDICATIVE CONTENT:	1. Historical Background
	2. What is Biopsychology
	3. The Anatomy of the Nervous System
	4. Neural Conduction and Synaptic transmission
	5. Methods of studying the Nervous System
	6. Learning, Memory and Amnesia
	7. Decision making and social neuroscience
	8. Lateralization, Language and Split Brain
	Biopsychology of Emotion and Stress Sychological Disorders
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