## **Subject Description Form**

Subject Code	APSS 5063		
Subject Title	Advanced Physiological Psychology		
Credit Value	3		
Level	5		
Pre-requisite / Co-requisite / Exclusion	Nil		
Assessmen t Methods	100% Continuous Assessment	Individual Assessment	Group Assessment
	1. Attendance & participation	10 %	
	2. Group project		25 %
	3. Mid-term test	25 %	
	4. Final test	40 %	
Objectives	This subject aims to advanc neurophysiology, development functions of different component subject, students should expect structure and function of the n behaviors.	tal neurobiology, neu nts of the nervous syste to have a detailed und	ropharmacology, and ms. By the end of the erstanding of how the
Intended Learning Outcome s	<ul> <li>Upon completion of the subject, students will be able to:</li> <li>a. understand the current methods that neuroscientists use to study the biological underpinnings of human experience and behavior</li> <li>b. understand brain-behavior relationships;</li> <li>c. describe the neurobiological bases of human experience and behaviors;</li> <li>d. describe the brain mechanisms involved in selected neurological and psychological disorders.</li> </ul>		

Subject Synopsis / Indicative Syllabus	<ol> <li>Methods and strategi</li> <li>Neuroanatomy: The</li> <li>Neurophysiology: Ge</li> <li>Neuropharmacology:</li> <li>Development of the r</li> <li>Sensory processing:</li> <li>Regulation of interna</li> <li>Biological rhythms</li> <li>Emotions, aggression</li> <li>Learning and memor</li> <li>Attention and higher</li> </ol>	structure and eneration, tra The chemic nervous syste Vision al states h, and stress	l organiz ansmissio cal bases em	ation of the on, and integoring of behavior	nervous sy gration of	ystem
Teaching / Learning Methodology	The main teaching method is in-class lecturing with which material will be presented and explained to the students. Discussions and exploration of contemporary research in physiological psychology will also be facilitated throughout the course.					
Methods in Alignment with Intended	Specific assessment methods / tasks	% weighting				
Learning			a	b	с	d
Outcomes	1. Attendance & participation	10%	ſ	ſ	ſ	ſ
	2. Group Project	25%	Г	Г	ſ	Г
	3. Mid-term test	25%	ſ	ſ	ſ	
	4. Final test	40%	Г	ſ	ſ	ſ
	Total	100%				
	<ul> <li>The grade is calculated according to the percentage assigned;</li> <li>The completion and submission of all component assignments are required for passing the subject; and</li> <li>Students must pass all components so as to pass the subject.</li> </ul> <b>Group project</b> Students are asked to form groups and present an empirical research paper on physiological psychology. <b>Mid-term test</b> The test will consist of multiple-choice questions only. It will cover approximately the first half of course material. <b>Final test</b> The test will consist of both multiple-choice, short-answer, and essay questions. It will cover all course material.					

Student Study Effort Expected	Class contact:	( <b>39</b> Hrs)			
	- Lecture	39 Hrs.			
	Other student study effort:	(93 Hrs)			
	Review of teaching materials	73 Hrs.			
	Preparation for assignments	20 Hrs.			
	Total student study effort:	132 Hrs.			
Reading List and References	Essential				
	Carlson, N. R. (2016). <i>Physiology of Behavior</i> (12 <sup>th</sup> <i>ed</i> .). Upper Saddle River, NJ: Prentice Hall				
	<u>Supplementary</u>				
	Banich, M. T., & Compton, R. J. (2018). <i>Cognitive neuroscience</i> . Cambridge University Press.				
	Barrett, L. F. (2017). <i>How emotions are made: The secret life of the brain.</i> Houghton Mifflin Harcourt.				
	Costandi, M. (2016). Neuroplasticity. MIT Press.				
	Cozolino, L. (2017). <i>The neuroscience of psychotherapy: Healing the social brain</i> . WW Norton & Company.				
	Cummings, J. L., & Mega, M. S. (2003). <i>Neuropsychiatry and behavioral neuroscience</i> . Oxford University Press.				
	Freberg, L. (2018). Discovering behavioral neuroscience: an introduction to biological psychology. Cengage Learning.				
	Haier, R. J. (2016). The neuroscience of intelligence. Cambridge University Press.				
	Haines, D. E., & Mihailoff, G. A. (2017). Fundamental Neuroscience for Basic and Clinical Applications E-Book. Elsevier Health Sciences.				
	Kandel, E. R. (2007). <i>In search of memory: The emergence of a new science of mind</i> . WW Norton & Company.				
	Lambert, K. G. & Kinsley, C. H. (2010). <i>Clinical neuroscience: Psychopathology</i> <i>and the brain</i> . Oxford University Press.				
	Linden, D. (2016). <i>Neuroimaging and Neurophysiology in Psychiatry</i> . Oxford University Press.				

Reading List and References	Murphy, R. A., & Honey, R. C. (Eds.). (2016). <i>The Wiley handbook on the cognitive neuroscience of learning</i> . John Wiley & Sons.	
	Paradiso, M. A., Bear, M. F., & Connors, B. W. (2007). Neuroscience: exploring the brain. Hagerstwon, MD: Lippincott Williams & Wilkins.	
	Ramachandran, V. S., Blakeslee, S., & Shah, N. (1998). <i>Phantoms in the brain:</i> <i>Probing the mysteries of the human mind</i> . New York: William Morrow.	
	Sanes, D. H., Reh, T. A., & Harris, W. A. (2005). Development of the nervous system. Elsevier.	

Slotnick, S. D. (2017). <i>Cognitive neuroscience of memory</i> . Cambridge University Press.
Zigmond, M. J., Coyle, J. T., & Rowland, L. P. (Eds.). (2014). <i>Neurobiology of brain disorders: Biological basis of neurological and psychiatric disorders</i> . Academic Press: Elsevier.