

Course syllabus

MBNS654 Selected Topics in Contemporary Neuroscience

Academic year 2019

Course ID and Name: MBNS654 Selected Topics in Contemporary Neuroscience

Course Coordinator: Prof. Banthit Chetsawang, Ph.D.

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Instructors:

1. Prof. Emeritus Piyarat Govitrapong, Ph.D.
2. Prof. Banthit Chetsawang, Ph.D.
3. Assoc. Prof. Wipawan Thangnipon, Ph.D.
4. Assoc. Prof. Nuanchan Chutabhakdikul, Ph.D.
5. Asst. Prof. Sujira Mukda, Ph.D.
6. Asst. Prof. Sukonthar Ngampramuan, Ph.D.
7. Asst. Prof. Vorasith Siripornpanich, M.D., Ph.D.
8. Asst. Prof. Kittikun Viwatpinyo, Ph.D.
9. Lect. Chutikorn Nopparat, Ph.D.

Credits: 1 (1-0-2)

Curriculum: Doctor of Philosophy Program in Neuroscience (required course)

Semester offering: Second semester

Pre-requisites: None

Course learning outcomes:

Upon completion of the course, students are able to:

1. Summarize the critical knowledge of selected contemporary research topic from research and review publications in neuroscience. (PLO1)
2. Integrate the critical knowledge of selected research topic and technologies in neuroscience to generate the further research study. (PLO2)
3. Develop the concept paper or pre-research proposal in neuroscience with ethical awareness. (PLO4)
4. Acquire scientific communication skill via presenting of concept paper to the public via a short seminar. (PLO6)

Alignment of teaching and assessment methods to course learning outcome:

Course learning outcome	Teaching method	Assessment methods
1. Summarize the critical knowledge of selected contemporary research topic from research and review publications in neuroscience.	assignment	assessment of assigned work by mentor (rubric scale)
2. Integrate the critical knowledge of selected research topic and technologies in neuroscience to generate the further research study.	assignment	assessment of assigned work by mentor (rubric scale)
3. Develop the concept paper or pre-research proposal in neuroscience with ethical awareness.	concept paper	assessment of assigned work by mentor (rubric scale)
4. Acquire scientific communication skill via presenting of concept paper to the public via a short seminar.	presentation	Oral presentation (rubric scale)

Course description:

An independent study on selected topics of contemporary neuroscience research, related to neurological and mental health problems; effects of the brain and behavior in children; aging of the brain and neurodegeneration such as Alzheimer's disease; substance abuses; stress and stress management; new innovative technologies in the neuroscience research; developing the concept paper and giving the presentation to the class

Course schedule:

Date: Monday to Friday (Jan 6 to Apr 27, 2020)

Time: Manage by Faculty mentor

Room A409

Date/Time	Topic/Details	Number of Hours	Class Activity/ Teaching Media	Lecturer
Jan 6 to Apr 24	1. Literature review of selected contemporary research topic from research and review articles	Manage by mentor	active learning, group discussion	Faculty mentor

	2. Discussion on the critical knowledge of selected contemporary research topic from research and review publications in neuroscience.	Manage by mentor	group discussion	Faculty mentor
	3. Concept paper preparation	Manage by mentor	Mentoring by PI	Faculty mentor
Mon, Apr 27 9.00-16.00	4. Concept paper presentation	6	Oral presentation	Faculty staff

Assessment Criteria:

Individual assignment 70%

Presentation 30%

Student's achievement will be graded using symbols: A, B+, B, C+, C based on the distribution of students' scores from the whole course.

Grading system

Final total score (100%)	85 to 100	A	GPA 4.0
	80 to 84	B+	GPA 3.5
	70 to 79	B	GPA 3.0
	60 to 69	C+	GPA 2.5
	50 to 59	C	GPA 2.0
	45 to 49	D+	GPA 1.5
	40 to 44	D	GPA 1.0

Date revised: June 14, 2019

