Course syllabus

MBNS 606 Current Topics in Neuroscience

Academic year 2019

Course ID and Name: MBNS 606 Current Topics in 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: Master of Science Program in Neuroscience (elective course)

Doctor of Philosophy Program in Neuroscience (elective course)

Semester offering: First semester

Pre-requisites: None

Course learning outcomes:

Upon completion of the course, students are able to:

1. Relate knowledge and technology in neuroscience to current research or review topics in neuroscience. (PLO1)
2. Summarize the critical knowledges or findings from research and review articles. (PLO1)

Alignment of teaching and assessment methods to course learning outcome:

Course learning outcome	Teaching method	Assessment methods
1. Relate knowledge and technology in neuroscience	- active learning - class discussion	- In class observation

to current research or review topics in neuroscience.		
2. Summarize the critical knowledges or findings from research and review articles.	- active learning - class discussion - short report	- In class observation, - assessment of assigned work

Course description:

Interpretation; critical review and discussion of recent publications related to advanced knowledge and technology in neuroscience

Course schedule:

Date: Thursday

Time: Afternoon

Room A409

Date/Time	Topic/Details	Number of Hours	Class Activity/ Teaching Media	Lecturer
Thu, Aug 22, 2019 15.00-16.00	1. Brain nutrients	1	active learning, class discussion, short report	Vorasith
Thu, Aug 29, 2019 13.00-14.00	2. Neural network	1	active learning, class discussion, short report	Kittikun
Thu, Sept 5, 2019 14.00-15.00	3. Gut microbiome	1	active learning, class discussion, short report	Sukonthar
Thu, Sept 12, 2019 15.00-16.00	4. The method to study human brain function	1	active learning, class discussion, short report	Vorasith
Thu, Sept 19, 2019 13.00-14.00	5. Neural stem cells	1	active learning, class discussion, short report	Wipawan
Thu, Sept 26, 2019 13.00-14.00	6. Neurotrophic factors	1	active learning, class discussion, short report	Wipawan
Thu, Oct 3, 2019 13.00-14.00	7. Neuroscience education	1	active learning, class discussion, short report	Nuanchan
Thu, Oct 10, 2019 13.00-14.00	8. Topic to be announced	1	active learning, class discussion, short report	Piyarat
Thu, Oct 17, 2019 13.00-14.00	9. Topic to be announced	1	active learning, class discussion, short report	Sujira

Thu, Oct 24, 2019 13.00-14.00	10. Topic to be announced	1	active learning, class discussion, short report	Chutikorn
Thu, Oct 31, 2019 13.00-14.00	11. Running and memory function	1	active learning, class discussion, short report	Banthit
Thu, Nov 7, 2019 13.00-14.00	12. Topic to be announced	1	active learning, class discussion, short report	Sujira
Thu, Nov 14, 2019 13.00-14.00	13. Topic to be announced	1	active learning, class discussion, short report	Chutikorn
Thu, Nov 21, 2019 13.00-14.00	14. Topic to be announced	1	active learning, class discussion, short report	Sukonthar
Thu, Nov 28, 2019 13.00-14.00	15. Nobel Prize for Neuroscience research	1	active learning, class discussion, short report	Banthit

Assessment Criteria:

Individual assignment	40%
Group discussion and participation	40%
Class attendance	20%

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: August 21, 2019