

Course Syllabus
MBNS 653 Clinical Neuroscience
Academic Year 2021

Course ID and Name: MBNS 653 Clinical Neuroscience

Course coordinator: Assoc. Prof. Vorasith Siripornpanich, M.D., Ph.D. (Neurosciences)

Dip. Thai Board of Pediatrics

Dip. Thai Board of Pediatric Neurology

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Lecturer Jiraporn Panmanee, Ph.D.

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Instructors:

1. Assoc. Prof. Naiphinich Kotchabhakdi, Ph.D.
2. Assoc. Prof. Wipawan Thangnipon, Ph.D.
3. Assoc. Prof. Vorasith Siripornpanich, M.D., Ph.D.
Dip. Thai Board of Pediatrics, Dip. Thai Board of Pediatric Neurology
4. Assoc. Prof. Lunliya Thampratankul, M.D.,
Dip. Thai Board of Pediatrics, Dip. Thai Board of Pediatric Neurology
5. Asst. Prof. Kittikun Viwatpinyo, Ph.D.
6. Lecturer Kittiphong Paiboonsukwong, M.D., Ph.D.
7. Lecturer Jiraporn Panmanee, Ph.D.
8. Guest lecturer from Prasat Neurological Institute
9. Guest lecturer from Somdet Chaopraya Institute of Psychiatry
10. Guest lecturer from Srithanya Hospital

Supporting Staff:

1. Ms. Kanda Putthaphongpheuk
2. Ms. Somsong Phengsukdaeng

Credits: 3 (3-0-6)

Curriculum: Doctor of Philosophy Program in Neuroscience

Semester offering: First semester

Pre-requisites: None

Course learning outcomes (CLOs)

Upon completion of this course, students are able to:

1. Explain the fundamental concepts on the clinical characteristics, diagnostic criteria, theories, and treatment of common neurological and psychiatric disorders. (PLO1)
2. Integrate theoretical knowledge in basic neuroscience and clinical information for understanding the brain and mental health disorders. (PLO1)
3. Demonstrate information technology and interpersonal communication skills through discussion of interesting topics in clinical fields. (PLO6)

Alignment of teaching and assessment methods to course learning outcome:

Course learning outcome	Teaching method	Assessment method
1. Explain the fundamental concepts on the clinical characteristics, diagnostic criteria, theories, and treatment of neurological and psychiatric disorders.	(1) Lecture (2) Case-based approach (3) In-class discussion	(1) Written examination (2) Oral examination (3) Reports (4) Class participation
2. Integrate theoretical knowledge in basic neuroscience and clinical information for understanding the brain and mental health disorders.	(1) Lecture (2) Hospital visiting (3) Case-based approach and Case discussion (4) In-class discussion	(1) Written examination (2) Oral examination (3) Class participation
3. Demonstrate information technology and interpersonal communication skills through discussion of interesting topics in clinical field.	(1) Individual assignment	(1) Presentation of assigned topic (2) Oral examination

Course description:

Classification of neurological and psychiatric diseases, symptomatology of neurological diseases, headache and migraine headache, common neurological diseases in children and adult, brain developmental disorders, common psychiatric diseases, schizophrenia, mood disorders, neurological examination, investigation for neurological diseases, electroencephalography, psychiatric interview and mental status examination, neuropsychological tests, consciousness and sleep test, principle of treatment in neurological and psychiatric diseases, medical ethics

Course schedule:

Date: Monday to Friday

Time: 9.00 am – 4.00 pm

Rooms: A409, Building A, Institute of Molecular Biosciences

* For this academic year, only online lecture is available *

TIME SCHEDULE FOR MBNS 653 CLINICAL NEUROSCIENCE

1st SEMESTER 2021

Course Coordinator: Dr.Vorasith Siripornpanich / Dr.Jiraporn Panmanee

Lecture room: Online Teaching

Date & Time	Topic	Class activity	Instructor
6 Sep 2021 (Mon) 13.30-14.00	Course orientation	Lecture	Vorasith
14.00-15.30	L1: Overview of Clinical Neuroscience L1.1: Concept of Neuropsychiatry L1.2: Disease categories: ICD and DSM	Introductory lecture	Vorasith Vorasith
8 Sep 2021 (Wed) 9.00-12.00	L3: Neurobiology of common psychiatric symptoms L3.1: Neurobiology of mood disorders L3.2: Neurobiology of hallucinations	Lecture Class discussion	Vorasith Kittikun
13.00-16.00	Self study	-	-
10 Sep 2021 (Fri) 9.00-12.00	L4: Psychiatric Assessment	Lecture Class discussion	Weerapon
13.00-16.00	L8: Dementia and Alzheimer's disease	Lecture Class discussion	Wipawan
13 Sep 2021 (Mon)	L5: Neuropsychological tests and assessment	Lecture Class discussion	Somchai

9.00-12.00			
13.00-14.30	L1.3: Neurological examination	Short lecture Demonstration	Vorasith
15 Sep 2021 (Wed) 9.00-12.00	Self study	-	-
13.00-16.00	L6: Case studies in Neurology	Case observation Demonstration	Metha
17 Sep 2021 (Fri) 9.00-12.00	L7: Consciousness and its disorder	Lecture Class discussion	Naiphinich
13.00-16.00	Self study	-	-
20 Sep 2021 (Mon) 9.00-12.00	L11: Common problems in Child Neurology (Childhood headache / Epilepsy / Cerebral palsy)	Lecture Class discussion	Vorasith
13.00-16.00	Self study	-	-
22 Sep 2021 (Wed) 9.00-12.00	L9: Headache and Migraine	Lecture Class discussion	Kittiphong
13.00-16.00	L2: Neuroanatomical correlation of neurological signs and symptoms L2.1: Abnormal movement – basal ganglia lesion L2.2: Cortical lesions	Lecture Class discussion	Vorasith Vorasith

27 Sep 2021 (Mon) 9.00-12.00	L14: Electrodiagnostic in clinical setting	Lecture Class discussion	Vorasith
13.00-16.00	L15: Drug design for precision medicine	Lecture Class discussion	Jiraporn
28 Sep 2021 (Tue) 9.00-12.00	L10: Neurological aspect of sleep medicine and visiting 24-hour EEG monitoring unit	Lecture Class discussion	Lunliya
1 Oct 2021 (Fri) 9.00-12.00	L12: Psychosis and Schizophrenia	Lecture Class discussion	Apichart
13.00-16.00	L13: Case studies in Psychiatry	Case observation Demonstration	Apichart
5 Oct 2021 (Tue) 9.00-12.00	Written examination (case-based approach)	-	Somsong
13.00-16.00	Written examination (essay questions)	-	Somsong
8 Oct 2021 (Fri) 9.00-12.00	Student presentation (1) Personality disorders (2) Anxiety disorders (3) Eating and Gender disorders	Class discussion	Vorasith

Assessment criteria:

Assessment criteria	Assessment method	Scoring rubrics
Written examination (60%)	(1) Case-based approach (2) Essay questions	Scoring directly from true/false answer
Student Reports (20%)	(1) Reports	Scoring directly from quality of report
Presentation of assigned topic (10%)	(1) Short presentation	(1) Information quality and organization of topic presented (2) Verbal communication and English proficiency (3) Non-verbal communication (4) Visual tools
Class attendance and participation in in-class discussion (10%)	(1) Numbers of classes signed in (2) Direct observation	Scoring directly from times of signing in

Student's achievement will be graded using symbols: A, B+, B, C+, C, D+, D and F based on the criteria as follows:

Percentage	Grade
85 -100	A
80 – 84	B+
70 - 79	B
60 - 69	C+
50 - 59	C
45 - 49	D+
40 – 44	D
< 40	F

Presentation performance evaluation rubric (10% of total score)					
Criteria	Excellent (score = 5)	Very good (score = 4)	Adequate (score = 3)	Limited (score = 2)	Poor (score = 1)
Information quality and organization of topic presented (including answering the questions) (2.5%)	Main points are explicitly presented with impressive detail and organization. Information is directly linked to the topic of presentation.	Main points are presented with good amount of detail. Information is well-organized and linked to the topic given.	Main points are somewhat clear but could add some more detail. Information is organized and linked to the topic given.	Main points are not clear and lack detail. Information is loosely organized and some are off-topic.	Main points are missed and have no detail. Information is disorganized and off-topic.
Verbal communication and English proficiency (2.5%)	Speaker's voice is very steady, clear and confident. Spoken language is very fluent and grammatically corrected.	Speaker's voice is steady and confident. Spoken language is fluent and mostly grammatically corrected.	Speaker's voice is moderately confident but could be developed. Spoken language is mediocre and has some grammatical errors.	Speaker's voice is unsteady and lacks confident. Use of spoken language needs to be improved, and many errors can be recognized.	Speaker fails to deliver proper presentation orally. Unable to deliver presentation via spoken English language.
Non-verbal communication (2.5%)	Speaker appears to be comfortable and confident. Effective uses of eye contacts and gestures are presented to support the presentation.	Speaker appears to be fairly confident. Eye contacts and gestures are generally used.	Speaker appears to be generally at ease. Moderate use of eye contact and gesture but not very effective.	Speaker appears uneasy, insecure or panicked. Eye contact and gesture are rarely used.	Speaker is obviously uncomfortable for presentation. No eye contact or gesture is presented.
Visual tools (2.5%)	Visual aids are very creative, easy to read and greatly enhance presentation.	Visual aids are typically clear and easy to follow.	Visual aids are good in terms of quality, but some points can be improved.	Limited visual aids are used or difficult to help audiences follow the topic.	No visual aids are used, and presentation is not interested by audiences.

Date revised: September 20, 2021