



## Course Syllabus (Academic Year 2023)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

1. **Course No. and Title** : KAGS 261 Regional Geology
2. **Credit (study hours)** : 1 (0-3-1)
3. **Program Name** : Bachelor of Science in Geoscience
4. **Course Module** : Major course (Term2/Year2)  
**Pre/co-requisite** : KAGS 200 Physical Geology  
 KAGS 221 Sedimentology and Laboratory  
 KAGS 222 Stratigraphy  
 KAGS 223 Lithology
5. **Class Semester** :  1<sup>st</sup> Semester  2<sup>nd</sup> Semester Academic Year 2023
6. **Class Schedule & Venue** : Friday (9:00 – 12:00)
7. **Class Coordinator** : Sutthikan Khamsiri  
 Contact No.: 098 252 5369 Email: Sutthikan.khamsiri@gmail.com

### 8. Course Description

Prepare background, Signification and Basic principle of Geology field survey including geological process, stratigraphy, structural geology and geological resources that deposited in Thailand (Western, Central, Northern, Northeastern and Southern part of Thailand)

#### Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			PLOs
		Specific	Generic	Knowledge	
1	Can explain Background and Signification of Physical Geology	✓		✓	1
2	Can explain Basic principle of Lithology, sedimentology and stratigraphy	✓		✓	1
3	Can explain the principle of Graphic and field method	✓		✓	1
4	Can explain background of the deposition and distribution of sediment and rock each region in Thailand	✓		✓	1

## 9. Class Instructor List

Geosciences lecturer:

9.1 Name : Dr. Parisa Nimnate                      Contact No. : 0879924245      Email : parisa.nim@mahidol.edu

9.2 Name : Dr. Patchawee Naulkhao      Contact No. : 0929042292      Email : patchawee.nau@mahidol.edu

9.3 Name : Pramote Nontarak                      Contact No. : 084969366      Email : pmntr@hotmail.com

9.4 Name : Dr. Apivut Veeravintanakul      Contact No. : 0835393519      Email: Apivut.vee@mahidol.edu

9.5 Name : Dr. Sutthikan Khamsiri              Contact No. : 0982525369      Email: Sutthikan.khamsiri@gmail.com

## 10. Course Outline

Week	Date	Contents	Instructor's Names
1	Jan 12, 2024	Background of Sedimentary and rock classification	Parisa Nimnate and Apivut Veeravintanakul
2	Jan 19, 2024	Description of Igneous and Metamorphic rock and outcrop	Parisa Nimnate and Apivut Veeravintanakul
3	Jan 26, 2024	Stratigraphic Units distribution in Thailand	Parisa Nimnate
4	Feb 2, 2024	Test Quiz stratigraphic unit distribution	Parisa Nimnate
5	Feb 9, 2024	Background of mineral deposit	Patchawee Naulkhao
6	Feb 16, 2024	Mineral deposit in Thailand	Patchawee Naulkhao
7	Feb 23, 2024	Test/quiz of Mineral deposit	Patchawee Naulkhao
8	March 1, 2024	Geology of Thailand (in local field areas)	Pramote Nontarak
9	March 15, 2024	Geology of Thailand (in local field areas)	Pramote Nontarak
10	March 22, 2024	Geology of Thailand (in local field areas)	Pramote Nontarak
11	March 29, 2024	Test/quiz of Geology of Thailand	Pramote Nontarak
12	April 5, 2024	Collection and export of geographic data and preparation of Geologic and topographic maps	Sutthikan Khamsiri
13	April 12, 2024	Structure and bedding measurement	Pramote Nontarak
14	April 19, 2024	Geomorphology in field area	Pramote Nontarak

15	April 26, 2024	Equipment in field survey practice test	Pramote Nontarak
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### 11. Course Assessment

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution (%)
11.1	Test/Quiz	Writing	1-4	4, 7, 10	60
11.2	Field Excursion & workshop/ Reports / Assignments	Writing, Lab	3-4	1-15	30
11.3	Class participation	Writing	1-4	1-15	10
				<b>Total</b>	<b>100</b>

### 12. Grading System

Criterion-referenced evaluation

Grade	Score
S	พอใจ (Satisfactory) $\geq 60\%$
U	ไม่พอใจ (Unsatisfactory) $< 60\%$

Norm-referenced evaluation

\*If use both criterion and norm-referenced evaluation, please tick two boxes.

### 13. References

- 1) เอกสารประกอบการสอนวิชาวิทยาหิน
- 2) หนังสือธรณีวิทยาประเทศไทย
- 3) พจนานุกรมธรณีฉบับราชบัณฑิตยสถาน
- 4) เอกสารการสอน สไลด์ วิชาตะกอนวิทยาและปฏิบัติการ
- 5) เอกสารการสอน สไลด์ วิชาการลำดับชั้นหิน
- 6) <https://www.geologieportal.ch/en/themes/fundamentals-of-geology.html>
- 7) [https://www.academia.edu/10358913/An\\_Introduction\\_to\\_field\\_geology](https://www.academia.edu/10358913/An_Introduction_to_field_geology)