



Course Syllabus (Academic Year 2017)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

1. **Course No. and Title** : KAGS 221 Sedimentology and Laboratory
2. **Credit (study hours)** :2(1-4-4).....
3. **Program Name** : Bachelor of Science in Geoscience
4. **Course Module** : Major course (Term1/year 2)
Pre/co-requisite : KAGS 101 Geology Around Us I
Co-requisite : KAGS 222 Stratigraphy
5. **Class Semester** : 1st Semester 2nd Semester Academic Year 2019
6. **Class Schedule & Venue** : Monday, 9.30 – 13:30, Room 2216
7. **Class Coordinator** : Dr.Parisa Nimnate
 Email : parisa.nim@mahidol.edu

8. Course Description

Basic principle of sedimentology, weathering, transportation and deposition of earth materials as a key to understanding sedimentary process, sedimentary structure and past depositional environments. Examine of sedimentary rock features and compositions as related to origin, dispersion, deposition, diagenesis, classification and general distribution of the sedimentary rock. Laboratory exercises related to lecture, i.e. rock structure, texture, fossils, depositional history of the basin, paleo-features of the basin and sedimentary rock formation.

Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			PLOs
		Specific	Generic	Knowledge	
8.1	To understand fundamental of sediment deposition of sedimentary rock that forming in unit	Sedimentary rocks Depositional processes		Rocks Grain size Particles	1
8.2	To explain the relationship of structure and structure of sediment in rock unit			Environments	1,2
8.3	Can be classify sedimentary rock and				

explain the depositional environment related with stratigraphy.				
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9. Class Instructor List

9.1 Name : Miss Parisa Nimnate Contact No. : 0-8799-24245 Email : parisa.nim@mahidol.edu

9.2 Name : Mr. Pramote Nontarak Contact No. : 0-8496-9366 Email : pmntr@hotmail.com

10. Course Outline

Week	Date	Contents	Instructor's Names
1	Aug 19, 2019	Background of the origin of sediment	Parisa Nimnate
2	Aug 26, 2019	The transportation and deposition	Parisa Nimnate
3	Sep 2, 2019	Texture of sediment and sedimentary rock	Parisa Nimnate
4	Sep 9, 2019	Sedimentary structure	Parisa Nimnate
5	Sep 16, 2019	Siliciclastic sedimentary rocks classification	Parisa Nimnate
6	Sep 23, 2019	Carbonate rocks classification	Parisa Nimnate
7	Sep 30, 2019	Sedimentary rock (carbonaceous)	Parisa Nimnate
8	Oct 7, 2019	Diagenesis	Parisa Nimnate
9	Oct 14, 2019	Holiday (no class)	-
10	Mid-term Examination		
11	Oct 21, 2019	Depositional environment (Fluvial and alluvial deposit)	Parisa Nimnate Pramote Nontarak
12	Oct 28, 2019	Depositional environment (Aeolian deposit)	Parisa Nimnate Pramote Nontarak
13	Nov 4, 2019	Depositional environment (Glacial deposit)	Parisa Nimnate Pramote Nontarak
14	Nov 11, 2019	Depositional environment (Delta and estuary deposit)	Parisa Nimnate Pramote Nontarak
15	Nov 18, 2019	Depositional environment (Shallow marine deposit)	Parisa Nimnate Pramote Nontarak
16	Nov 25, 2019	Depositional environment (Deep marine deposit)	Parisa Nimnate Pramote Nontarak
17	Dec 2, 2019	Sedimentary field trip	Parisa Nimnate Pramote Nontarak
18	Final Examination		

11. Course Assessment

No.	Methods / Activities	Regulations	Week	Weight Distribution (%)
11.1	Mid-term exam	Paper test	10	35
11.2	Final exam	Paper test	18	40
11.3	Quiz/ Reports / Assignments			15
11.4	Class participated			10
			Total	100

12. Grading System

√ Criterion-referenced evaluation

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A	≥ 80 %	B	70 – 74.99%	C	60 – 64.99%	D	50 – 54.99%
B+	75 – 79.99%	C+	65 – 69.99%	D+	55 – 59.99%	F	< 50 %

√ Norm-referenced evaluation

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

13. References

- 1) Boggs Jr., S., 1992, Petrology of sedimentary rocks, Macmillan Publishing Co., New York, 705p.
- 2) Einsele, G., 1992, Sedimentary basins: evolution, facies, and sediment budget, Springer-vevlag Berlin, Heidelberg, 628p.
- 3) Dunbar, C., 1961, Principles of stratigraphy, John Wilson, New York.
- 4) Fritz, W.J. and Moore, J.N., 1988, Basics of physical stratigraphy and sedimentology, John Wiley and Sons Inc., New York, 371p.
- 5) Greensmith, J., 1989, Petrology of the sedimentary rocks, Oxford.
- 6) Krumbein, W.& Sloss, L., 1951, Stratigraphy and sedimentation, W. H. Freeman and Company, San Francisco, 637p.
- 7) Pettijohn, F.J., 1975, Sedimentary rocks (3rd ed.), Parper and Row, New York, 628p.
- 8) Reading, H. G., 1978, Sedimentary environments and facies, Blackwell Scientific Publications, Oxford, 557p.
- 9) Selley, R.C., 1976, An introduction to sedimentology, Academic Press Ltd., London, 408p.
- 10) Tucker, M. E., Sedimentary petrology An introduction, Blackwell Scientific Publications, 252p.
- 11) Weller, J., 1960, Stratigraphic principles and practice, University Book Stall, Delhi, 683p.

Course Syllabus - Academic Writing. Thuyduong Nguyen. Rating rubrics for the course: 1. Weekly writing assignment: 20% 2. Peer responses: 10% 3. Presentation: 10% 4. Final Writing Project: 60% 5. Classroom Attendance Full classroom attendance: 5% (Bonus) First absence: for free (no bonus) Second absence: minus 10% Third absence: minus 20% Fourth absence: not eligible to do the writing project Weekly writing assignments (20%) You are required to write a paragraph or an essay each week or every other week based on the content of the lecture delivery. All writing must be in academic writing styles ADA University Academic Catalogue 2018-2019 Academic Year. ADA University. 2018 Catalogue. Individual instructors may have different attendance requirements; it is the student's responsibility to check each course syllabus to determine policy and to speak to instructors regarding absences. Absences may adversely affect a student's grade. Students are required to make-up all work missed because of absence by the end of the term. Entering Academic Year 2018-2019 (4 year): Regulations & Syllabus. The courses RECO2025 Surveying Studio 1 and RECO2026 Surveying Studio 2 are certified as Communication Intensive Course (CiC), as endorsed by the CiC Committee for meeting the criteria for CiC badging as approved by the Senate. Please refer to the Syllabus Statement of these two courses (RECO2025, RECO2026) for the details. Entering Academic Year 2017-2018 (4 year): Regulations & Syllabus. Entering Academic Year 2016-2017 (4 year): Regulations & Syllabus. Entering Academic Year 2015-2016 (4 year): Regulations & Syllabus General Below, you will find available Syllabi for courses offered within the department. Many courses have prerequisites and/or corequisites. Prerequisites/Corequisites for courses are based on the academic year the course is taught "not your program's catalog year. You can view the most up to date list of prerequisites/corequisites. Each course is managed by a faculty course coordinator. Some courses have alternate course credit/waiver options. Select a Term: 2021 Spring 2020 Fall 2020 Summer 2020 Spring 2019 Fall 2019 Summer 2019 Spring 2018 Fall 2018 Summer 2018 Spring 2017 Fall 2017 Summer 2017 Undergraduate Studies Academic year 2018/2019, Fall semester INTRODUCTION TO ECONOMIC REASONING: PRINCIPLES OF ECONOMICS GUILLAUME PLANTIN Course coordinator: Daniel Bastidas, DESCRIPTION The Economics course at the undergraduate level is an introduction to the main contemporaneous issues in economics. Its objectives are: to introduce the core concepts and the debates (both theoretical and empirical) that structure the discipline; to introduce quantitative methods for students who want to deepen their knowledge of economics; and to allow for a first specialization in some top