Science 1 Earth Science 1 and Life Science 1

Basic Course Information			
Course Number	03005019	Subject Category	Compulsory(G)
Class Format	Lecture	Credit Type and Number of Credits	0,375
Department	Electrical and Electronics	Student Category	Year 1
Period of Study	Semester 1	Classes per Week	3
Required Materials	Earth Science and Life Scien	ce	
Instructor	Rattawan Poodproh		

Course Objective 1. To gain basic knowledge of Barth Science and Life science which will be necessary for future engineering activities in 2. To develop studently in the science of the science which will be necessary for future engineering activities in 2. To develop studently human skills and as thinking, exclusing, and collaborating skills through individuals and group works that are key competencies for global engineers to creat something new.

Achivements 1: Earth Some 1 2. Internal structure and Achivty of the Earth Achivements 2: Life Same 1 3. Diversity and contronality of life 4. Advisements 2: Life Same 1 4. Advise to contents, and c	Evaluation (Rubrio)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
	1. Overview of the Earth 2. Internal structure and Activity of the Earth Achivements 2 : Life Science 1 3. Diversity and commonality of life	and explain the contents. Ability to correctly explain	of the basic terms	knowledge and

 Relationship with Learning Outcomes

 G(1) Wide knowledge on Science and Engineering and practical ability to apply them to solve problems in the sockety.

 G(4) Greativity to make a new value with fueing the knowledge from various fields.

G(C) As an engineer, attitude to act with awareness of social roles and responsibility to make a better society. Teaching Method

Outline:	Students learn basic concepts and principles of Earth Science and Life Science. The worksheets and workbooks are designed to heal the students to develop knowledge, problem solving skills and understanding.
Class Format:	Lecture
Please Note :	All materials will be posted on the Google classroom. The students are requested to keep photo copies or files of all submitted material to ensure further study by onsestives.

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7th week V	Diversity and commonality of life	e (2)		I-E	1	11
			and evolution of living organisms			
			properties of organisms.	I-E	4	16
	Vegetation on Earth (1)		1. Explain the succession of vegetation and its mechanism. 2. Explain biomes in the	I-E	1	10
			world and their distribution.			
	Vegetation on Earth (2) Wraio-up Quiz		3. Explain the horizontal	Е	1	18
			and vertical distribution of biomes in Japan and Thailand. 4. Conclude all contents			
8th week V						
G			5. Evaluation of students'			
		comprehension.				
	Midterm Exam					
9th week M						
		1				
	Return of examination script and reflection					
10th week F						
			-			
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11-18th week C	Chemistry 1					
19th week F	Final Examination					
						-
20th week R						
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						Do not
	Examination	1.17	Mutual Evaluations between students	Report	Portfolio	Other
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echnical Ability Iterdisciplinary Ability	8	0	0			L
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 Science 1

 Physics 1
 Chemistry 1
 Life Science 1
 Earth Science 1

 50%
 25%
 12.5%
 12.5%