Introduction of Engineering Approach 1

Basic Course Information			
Course Number	02005069	Subject Category	Compulsory (C)
Class Format	Lecture	Credit Type and Number of Credits	1
Department	Computer	Student Category	Year 1
Period of Study	Semester 1	Classes per Week	2
Required Materials	A laptop or Tablet, internet o	onnection is required,	
Instructor	Tanapon Keatsamarn	Yuki Yoshikawa	Amon Sakonkanapong

Course Objective
Student can solve empresering problems with basic knowledge of logical thinking, critical thinking, and lateral thinking.
Student can provide reasons for decision making, creating ideas, and another solving, Group work and presentation skills are also aimed to be developed.

Evaluation(Rubrio)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
Logical thinking and critical thinking	issues, Explain and	Identify and explain main issues, but unable explain cause and how to solve the problem,	Unable to identify and explain main issues.
Group work	goal, Encourage and respect	Working together to reach a goal, Try to Encourage and respect other,	Raraly listen to others, Don't share your ideas and support others,
Presentation	The presentation is well organized. Present ideas and information logically.	The presentation is organized, Present ideas and information in a sequence.	The presentation is not organized. Present ideas and information incomplete and messed up.
Responsibility/Time management	Submit all report completely and on time,	Submit all report completely and mostly on time,	Inability ti submit work completely and on time.

Polisionatio with Learning Outcomes

(1) Wide Invanisha on Science and Engineering and precious ability to easily them to solve problems in the ecoder, cookie.

(III) As an engineer, attitude to set with avereness of social crise and responsibility to make a bottle society.

(III) Ality to apply the updates instructory flag, are fitted intelligent (Ad., Big data etc) to build up computer within to export the development of cooter.

Teaching Method
Outline:

Semester 1	Contents and Method of Course	Goals	Related MCC
1st week	Name Crosswords/ Self-introduction	Understand concept of Engineering Approch. Classmate hunter	V-D 8 99
2nd week	Map making	Working together and get close to your friends.	V-D 8 98
3rd week	Interesting poster (Title creating) Make the interesting poster		V-D 8 98
4th week	Logical thinking/ 40s/ Johari window	Understand about logical thinking and related topics	V-D 8 98
5th week	Brain stroming & KJ method	Understand about KJ method	
6th week	Brain stroming & KJ method	Understand about KJ method and presentation	
	S.E. 5		
7th week	Midterm exam preparation Midterm exam preparation		
	Mdterm exam no exam		
	Midterm exam	no exam	
8th week	Mind Mapping	Understand about Mind Mapping and evaluation	
9th week	9th week Venn diagram Unde	Understand about Venn diagram	
	Holiday		
10th week	Venn Diagram Prsenation (Gallery walk)	Understand and share your ideas to others	V-D 8 98
11th week	KISS Keep Improve Start Stop	Understand about KISS method	
12th week	Problem solving	Understand and solve the problem	V-D 8 97
13th week	Telephone game	Understand the IT procedure and work together	V-D 8 97
14th week	Who?, What?, Why?	Get close to your friends	V-D 8 97
15th week	Final exam preparation	Final exam preparation	
	Final exam	no exam	
16th week	Review this course	Review this course	
	Examination Presentation	Behavlor	Do n

	Examination	Presentation	Behavlor	Report	Portfolio	Other
Basic Ability		0	20	60		
Technical Ability		20	0	0		
Interdisciplinary Ability		0	0	0		