

GENERAL EDUCATION, KMITL

COURSE SYLLABUS

Course Code	96642013	Course Title	Integrated Thinking				
Total Credits	3 (3-0)	Semester / Year of Study	1/2568	Section		Date- Time	THU 9.00 - 12.00
Course Description (English)	Study principles and various types of thinking; positive thinking lateral thinking, critical thinking, analytical thinking. Learn to develop thinking process through questioning, analyzing, synthesizing and evaluating. Learn to express logical ideas and create workpiece based on own thought.						
Course Coordinator	-						
Course Instructors	Vich Sanardharn						
Teaching Assistant (if any)	-						
Counselling Schedule	MON - FRI 9.00 - 18.00			Teaching Language	☐ Thai ☒ English ☐ Others, please specify.....		
Website or Online Teaching Method (if any)	Microsoft Teams Teams Code : 1dkfuni						
Course Learning Outcomes							
By the end of this course, the student will be able to CLO-1. Students are able to develop thinking, analytical skills, and the ability to express themselves with reason. CLO-2. Students have the ability to select appropriate thinking methods, interpret, and evaluate in order to make decisions and solve problems. CLO-3. Students are capable of thinking outside the box and creating works that stem from their thinking.							

General Education Learning Outcome: GE-LO

GE-LO	Value
☒ GE-LO-1 Analytical and Critical Thinking	2
☐ GE-LO-2 Complex Problem Solving	
☒ GE-LO-3 Creativity	5
☒ GE-LO-4 Interpersonal Skills	1
☐ GE-LO-5 Integrity and Perseverance	
☒ GE-LO-6 Active Learning and Learning Strategies	2
☒ GE-LO-7 Resilience, Stress Tolerance and Flexibility	2
☐ GE-LO-8 Leadership and Social Influence	
☒ GE-LO-9 Communication	2
☐ GE-LO-10 Entrepreneurship and Startup	
☒ GE-LO-11 Digital Quotient Literacy and Digital Media Production	1
Total Value	<u>15</u>

Teaching Plan and Evaluation Plan

Week	Topic/Sub-topic	Activities	Notes
1	Introduction : What is Thinking	Interactive Lecturing with Activities	
2	The Perception	Interactive Lecturing with Activities	
3	The Questioning	Interactive Lecturing with Activities	
4	Critical Thinking	Interactive Lecturing with Activities	
5	The Fallacy	Interactive Lecturing with Activities	
6	Creative as BEING	Interactive Lecturing with Activities	
7	Sketch up the ideas & Prototyping	Interactive Lecturing with Activities	
8	World of Ideas	Interactive Lecturing with Activities	MID TERM PROJECT

Week	Topic/Sub-topic	Activities	Notes
9	Understand The Opposite	Interactive Lecturing with Activities	
10	Ways of Integrated	Interactive Lecturing with Activities	
11	The Storm Before the calm	Interactive Lecturing with Activities	
12	Your own foundation	Interactive Lecturing with Activities	
13	What is worth sharing	Interactive Lecturing with Activities	
14	Your Ideas worth sharing - Presentation part 1	Interactive Lecturing with Activities	FINAL PROJECT
15	Your Ideas worth sharing - Presentation part 2	Interactive Lecturing with Activities	FINAL PROJECT

Evaluation Plan

Assessment Activities	Value	Score	Week of Evaluation	Notes
1. Attendance	1	4	15wk	Arriving more than 1 hour late is considered an absence. More than 3 absences without a leave note will result in a grade of F.
2. Class Interaction & Assignment	4	16	15wk	This includes all assignments done during class, as well as those assigned for completion outside of class within one week before the next session.
3. Group Presentation	6	24	wk8	Present in class and submit presentation materials, including evaluation documents for other groups, within one week after the presentation day.
4. Final (Your Ideas Worth Sharing)	4	16	wk14 & wk15	Present in class and submit additional video and presentation documents within one week after Week 15
Total	15	60		

Evaluation criteria

☐ Group-based								
☒ Standard-based								
Grade	A	B+	B	C+	C	D+	D	F
Score (60 points)	57-60	49-56.9	41-48.9	34-40.9	27-33.9	21-26.9	15-20.9	0-14.9
☐ Satisfactory/Unsatisfactory (S/U)								
Grade	S				U			
Score (60 points)	30-60				0-29.9			

Scoring criteria according to Assessment Plan

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
1. Attendance	GE-LO-6	1	On-time attendance $\geq$ 11 times	On-time attendance 9–10 times	On-time attendance 7–8 times	On-time attendance < 7 times
2. Class Interaction & Assignment	GE-LO-1	1	The student is able to clearly identify key characteristics of the given topic with logical reasoning and can interpret, analyze, and summarize the intended content effectively.	The student is able to clearly identify key characteristics of the given topic with logical reasoning and can interpret and analyze the information, but cannot summarize the intended content clearly.	The student is able to identify key characteristics with logical reasoning but cannot interpret, analyze, or summarize the content clearly.	The student cannot demonstrate analytical or critical thinking skills according to the level 2–4 scoring criteria.
	GE-LO-3	1	The student demonstrates creative thinking according to the given task, expands their ideas clearly, and explains the meaning of their work in full alignment with the assigned objectives.	The student demonstrates creative thinking according to the given task and expands their ideas clearly, but cannot fully explain the meaning of their work in alignment with the assigned objectives.	The student demonstrates creative thinking according to the given task, but cannot clearly expand their ideas or fully explain the meaning of their work.	The student cannot demonstrate creative thinking skills according to the level 2–4 scoring criteria.
	GE-LO-6	1	The student participates in all in-class activities, can clearly describe personal changes, and explains how the content learned can be applied to real life.	The student participates in all in-class activities and can clearly describe personal changes, but cannot explain how to apply the content to real life.	The student participates in all in-class activities but cannot clearly describe personal changes or explain real-life applications.	The student cannot demonstrate active learning and curiosity according to the level 2–4 scoring criteria.
	GE-LO-7	1	The student writes a reflection that clearly addresses the problem, analyzes its cause, and effectively explains a solution based on concepts learned in class.	The student writes a reflection that clearly addresses the problem and analyzes its cause, but cannot explain a solution effectively.	The student writes a reflection that addresses the problem, but cannot analyze the cause or explain a solution effectively.	The student cannot demonstrate resilience, flexibility, or the ability to recover from stress according to the level 2–4 scoring criteria.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
3. GROUP PRESENTATION - FROM SKETCH UP TO PROTOTYPE SHEET - IDEAS STATEMENT - PRESENTATION DECK	GE-LO-1	1	The group's work clearly identifies the key characteristics of the given task with logical reasoning and is able to interpret, analyze, and summarize the intended message effectively.	The group's work identifies key characteristics with logical reasoning and is able to interpret and analyze information but cannot summarize the intended message clearly.	The group's work identifies key characteristics with logical reasoning but cannot interpret, analyze, or summarize the message clearly.	The group's work does not demonstrate analytical and critical thinking skills according to the level 2-4 scoring criteria.
	GE-LO-3	2	The work is fully completed according to the task, creatively incorporates all three assigned components, and fully achieves the learning objectives of each component.	The work is fully completed according to the task and creatively incorporates all three components, but one objective of one component is not fully achieved.	The work is fully completed according to the task and creatively incorporates all three components, but two objectives of one component are not fully achieved.	The group's work does not demonstrate creative thinking skills according to the level 2-4 scoring criteria.
	GE-LO-4	1	The student listens to others' opinions, adapts to changes, follows group rules or decisions, fulfills assigned roles, accepts outcomes, engages in mutual interactions, regulates personal behavior, and communicates appropriately.	The student listens to others' opinions, adapts to changes, follows group rules or decisions, fulfills assigned roles, accepts outcomes, and engages in mutual interactions, but lacks self-regulation or appropriate communication.	The student listens to others' opinions and adapts to changes, but fails to follow group rules or fulfill assigned roles, though they accept outcomes, interact with others, regulate behavior, and communicate appropriately.	The student does not demonstrate relationship management skills according to the level 2-4 scoring criteria.
	GE-LO-9	1	The student can identify key messages effectively, select appropriate communication tools, methods, wording, and gestures, summarize and respond appropriately with supporting reasons, solve immediate problems, and reflect on opinions.	The student can identify key messages effectively, select appropriate communication tools, methods, wording, and gestures, summarize and respond appropriately with supporting reasons, but cannot solve immediate problems or reflect on opinions.	The student can identify key messages effectively and select appropriate communication tools, methods, wording, and gestures, but cannot summarize or respond appropriately, lacks supporting reasons, and cannot solve immediate problems or reflect.	The student does not demonstrate effective communication skills according to the level 2-4 scoring criteria.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
	GE-LO-11	1	The student is able to use technology to produce digital media aligned with the 3 components of the work, effectively enhancing understanding of the intended content, and free from technical issues that interfere with the presentation.	The student is able to use technology to produce digital media aligned with the 3 components of the work and enhances understanding of the intended content, but there are technical issues that interfere with the presentation.	The student is able to use technology to produce digital media aligned with the 3 components of the work, but does not enhance understanding of the intended content and has technical issues that interfere with the presentation.	The student is unable to demonstrate digital literacy and digital media production skills according to the level 2-4 scoring criteria.
4. FINAL PROJECT - STORYTELLING Canvas - THE PERFORMANCE - OPINION STATEMENT	GE-LO-3	2	The student's work is fully completed according to the given task, creatively includes all three required components, and fully achieves the objectives of each component based on the course content.	The student's work is fully completed according to the given task and includes all three required components, but fails to meet 1 objective of one of the components based on the course content.	The student's work is fully completed according to the given task and includes all three required components, but fails to meet 2 objectives of one of the components based on the course content.	The student does not demonstrate creative thinking skills according to the level 2-4 scoring criteria.
	GE-LO-7	1	The student is able to write a clear reflection on the issue that occurred, analyze the cause of the problem, and effectively explain a solution using concepts learned in class.	The student is able to write a clear reflection on the issue that occurred and analyze the cause of the problem, but cannot effectively explain a solution based on class concepts.	The student is able to write a reflection on the issue that occurred, but cannot analyze the cause or explain a solution based on class concepts.	The student does not demonstrate resilience, flexibility, or the ability to recover from stress according to the level 2-4 scoring criteria.
	GE-LO-9	1	The student clearly identifies the key message, selects appropriate communication tools, methods, wording, and gestures, summarizes and responds appropriately with supporting reasoning, handles unexpected problems, and reflects on feedback.	The student clearly identifies the key message, selects appropriate communication tools, methods, wording, and gestures, summarizes and responds appropriately with supporting reasoning, but cannot handle unexpected problems or reflect on feedback.	The student clearly identifies the key message and selects appropriate tools, methods, wording, and gestures, but cannot summarize or respond effectively, lacks reasoning support, and cannot handle unexpected problems or reflect.	The student does not demonstrate effective communication skills according to the level 2-4 scoring criteria.