

GENERAL EDUCATION, KMITL

COURSE SYLLABUS

Course Code	96642017	Course Title	INNOVATION UNBOXED				
Total Credits	3 (3-0-6)	Semester / Year of Study		Section		Date- Time	
Course Description (English)	Study importance and necessity of innovation; analysis of important concepts, theories, and principles concerning a development of innovation; usefulness of innovation to all levels of development, and study positive and negative factors on the development of innovation, with an adaptation or change in perspective to achieve innovative mindset, principles on analysis, synthesis, integration, and formation of innovation, and innovations from variety of applications of knowledge to various issues and situations.						
Course Coordinator							
Course Instructors	Dr. Panisa Arthachinda						
Teaching Assistant (if any)							
Counselling Schedule				Teaching Language	<input type="checkbox"/> Thai <input checked="" type="checkbox"/> English <input type="checkbox"/> Others, please specify.....		
Website or Online Teaching Method (if any)							

Course Learning Outcome

1. To introduce students to the basic concepts of innovation and innovation management
2. To study fundamental business & management models used in innovative organizations
3. To understand the business environment, strategic planning and policy developments
4. To introduce students to real life case studies and stories about successful innovation leaders who perform in the industry with innovative products and services.
5. To explain students the development of innovative products and viability studies.
6. To improve students' self-management & empowerment skills.

General Education Learning Outcome: GE-LO		
GE-LO	Value	
<input checked="" type="checkbox"/> GE-LO-1 Analytical and Critical Thinking	2	
<input checked="" type="checkbox"/> GE-LO-2 Complex Problem Solving	1	
<input checked="" type="checkbox"/> GE-LO-3 Creativity	3	
<input checked="" type="checkbox"/> GE-LO-4 Interpersonal Skills	1	
<input checked="" type="checkbox"/> GE-LO-5 Integrity and Perseverance	1	
<input type="checkbox"/> GE-LO-6 Active Learning and Learning Strategies	-	
<input checked="" type="checkbox"/> GE-LO-7 Resilience, Stress Tolerance and Flexibility	1	
<input checked="" type="checkbox"/> GE-LO-8 Leadership and Social Influence	2	
<input checked="" type="checkbox"/> GE-LO-9 Communication	2	
<input checked="" type="checkbox"/> GE-LO-10 Entrepreneurship and Startup	1	
<input checked="" type="checkbox"/> 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	Course introduction	Lecture, discussion, and activities	
2	Concept and theory of innovation	Lecture, discussion, and activities	
3	Creativity and innovation	Lecture, discussion, and group activities	
4	Mindset for innovation 1	Lecture, discussion, and activities	
5	Mindset for innovation 2	Lecture, discussion, and activities	
6	Innovation process: SEARCH	Lecture, discussion, and group activities	
7	Innovation process: SELECT	Lecture, discussion, and group activities	
8	Innovation process: IMPLEMENT	Lecture, discussion, experiment, and outdoor activities	
9	Innovation process: CAPTURE	Lecture, discussion, and activities	
10	Selling your idea	Lecture, discussion, and activities	
11	Change management	Lecture, discussion, and activities	
12	Future of innovation technology in the industry	Lecture from guest speaker, discussion, and activities	[Guest speaker from Japanese Tech company]
13	Project finalization	Discussion and activities.	
14	Project presentation	Presentation and discussion	
15	Final exam	Exam	

Evaluation Plan

Assessment Activities	Value	Score	Week of Evaluation	Notes
1. Attendance and punctuality	1	4	Whole semester	Students who are absent more than three times without submitting a valid excuse will receive a failing grade (F) for the course
2. Workshop and class activities	6	24	1-13	In-class activities must be submitted during the class session. Late submissions will result in a reduced score, and failure to submit will result in a score of 0
3. Individual assignment	2	8	14	Individual assignment must be submitted in the system. Late submissions will result in a reduced score, and failure to submit will result in a score of 0
4. Final project	4	16	14	Group presentation is held in week 14
5. Final exam	2	8	15	Final exam is held in week 15. Failure to attend the final exam will result in a failing grade for this module
Total	15	60		

Evaluation criteria

<input type="checkbox"/> Group-based								
<input checked="" type="checkbox"/> 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
<input type="checkbox"/> 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 and punctuality	GE-LO-8	1	Attend class punctually at least 80% of the time	Attend class punctually at least 70% of the time	Attend class punctually at least 60% of the time	Attend class punctually less than 50% of the time
2. Workshop and class activities, such as... - Unleash your inner innovator - Business model canvas - Innovation auditing - The unusual use and etc.	GE-LO-3	1	Students demonstrate an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. They effectively expand on their ideas, presenting them clearly and comprehensively across all relevant aspects	Students demonstrate an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. While they can develop new concepts, their expansion of ideas may lack clarity or completeness in some areas	Students demonstrate an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. However, slowly or cannot keep up with some limitations.	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.
	GE-LO-4	1	Students demonstrate interpersonal skills by effectively cooperating and interacting with others. They adapt to changes seamlessly and foster mutual understanding, building positive relationships and behavior	Students show moderate interpersonal skills, cooperating and interacting with others but may struggle with adapting to changes and respond to team effectively.	Students exhibit basic interpersonal skills, but their cooperation and interaction with others are limited. They have difficulty adapting to changes and often fail to establish mutual understanding, resulting	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
					in weaker relationships and behavior.	
	GE-LO-5	1	Students demonstrate a commitment to integrity by respecting class regulations, valuing others, and exhibiting self-respect. They consistently follow up their assigned work and actively monitor their progress	Students demonstrate a commitment to integrity by respecting class regulations, valuing others, and exhibiting self-respect. They consistently follow up their assigned work and actively monitor their progress. They commit to their work but may not consistently follow up on progress	Students exhibit basic integrity, occasionally respecting class regulations and others. However, they do not show commitment to their assigned work and rarely monitor their progress	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.
	GE-LO-7	1	Students demonstrate resilience by objectively assessing problems and comparing them with surrounding situations. They effectively analyze cause-and-effect relationships, thoughtfully reconsider solutions, and	Students demonstrate resilience by objectively assessing problems and comparing them with surrounding situations. While they can analyze cause-and-effect relationships, their solutions may lack	Students demonstrate resilience by objectively assessing problems and comparing them with surrounding situations. However, they have difficulty analyzing cause-and-effect relationships and often	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
			leverage their strengths to adapt to various challenges	thorough consideration, and they may not fully utilize their strengths in different situations	do not leverage their strengths to adapt to challenges	
	GE-LO-9	2	Students effectively capture the core issues of the messages and select appropriate tools and channels for communication. They convey their messages clearly and directly, providing strong supporting reasons, and are adept at resolving any misunderstandings from the listeners	Students effectively capture the core issues of the messages and select appropriate tools and channels for communication. Even though their supporting reasons are clear, their attempt to address misunderstandings among listeners is limited	Students demonstrate basic communication skills, but their choice of tools is sometimes appropriate. Their messages lack clarity and strong supporting reasons, leading to some misunderstandings.	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.
3. Individual assignment: Innovative idea that change the world	GE-LO-1	1	Students demonstrate an ability to identify the importance of content in relation to the course and its impact. They can effectively recognize relationships between different concepts and draw well-supported	Students demonstrate an ability to identify the importance of content in relation to the course and its impact. While they can identify relationships between concepts,	Students demonstrate an ability to identify the importance of content in relation to the course and its impact. However, they struggle to consistently identify relationships between concepts, and	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
			conclusions from data to explain their ideas	their conclusions from data are somewhat less robust and may lack depth in supporting their ideas	their conclusions drawn from data are often weak or insufficient to fully support their ideas	
	GE-LO-3	1	Students demonstrate an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. They effectively expand on their ideas, presenting them clearly and comprehensively across all relevant aspects	Students demonstrate an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. While they can develop new concepts, their expansion of ideas may lack clarity or completeness in some areas	Students demonstrate an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. However, slowly or cannot keep up with some limitations.	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.
4. Final project: Innovation for life	GE-LO-3	1	Student demonstrates an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. They effectively expand on their ideas, presenting	Student demonstrates an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. While they can	Student demonstrates an ability to generate innovative ideas and adapt existing concepts to find diverse solutions. However, slowly or	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
			them clearly and comprehensively across all relevant aspects	develop new concepts, their expansion of ideas may lack clarity or completeness in some areas	cannot keep up with some limitations.	
	GE-LO-8	1	Students demonstrate leadership skills by effectively collaborating within the team and fostering positive relationships. They motivate team members, take responsibility for their actions, and honor the roles and responsibilities of their coworkers	Students demonstrate leadership skills by effectively collaborating within the team and fostering positive relationships. They can motivate some team members and communicate changes, but may not consistently take responsibility or fully honor the roles of others	Students exhibit basic leadership skills but often have difficulty collaborating effectively with the team. Their motivation for team members is limited, and they may struggle to take responsibility for their actions, often neglecting the roles of their coworkers.	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.
	GE-LO-10	1	Students effectively apply their knowledge to create innovative solutions, demonstrating a strong understanding of	Students can apply their knowledge to create innovative solutions, demonstrating a	Students can apply their knowledge to create innovative solutions but struggle to apply their	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
			business risks. They set clear goals, prepare comprehensive plans, and thoroughly analyze financial issues and other ethical considerations	strong understanding of business risks. They set goals and prepare plans, but their financial analysis and consideration of ethical issues may lack depth in some areas	knowledge effectively. Also, their analysis of financial issues and ethical considerations is incomplete	
	GE-LO-11	1	Students demonstrate strong proficiency in using digital technology to produce high-quality digital media. They effectively utilize digital tools to present their ideas, create business opportunities, foster collaboration. They understand online-related laws and can manage time to produce digital media effectively	Students demonstrate strong proficiency in using digital technology to produce high-quality digital media. They can use digital tools to present ideas and understand related laws, but their work is still limited because of limitation in time and production management	Students demonstrate proficiency in using digital technology to produce digital media. They can use digital tools to present ideas but lack of awareness regarding online-related laws.	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.
5. Final exam	GE-LO-1	1	Students demonstrate an ability to identify the importance of content in	Students demonstrate an ability to identify the importance of	Students demonstrate an ability to identify the importance of	The student is unable to demonstrate skills according to the scoring

Assessment Activities	Learning Outcomes	Value	Level			
			4 (Excellent)	3 (Good)	2 (Fair)	1 (Poor)
			relation to the course and its impact. They can effectively recognize relationships between different concepts and draw well-supported conclusions from data to explain their ideas	content in relation to the course and its impact. While they can identify some relationships between concepts, their conclusions from data are somewhat less robust and may lack depth in supporting their ideas	content in relation to the course and its impact. However, they struggle to consistently identify relationships between concepts, and their conclusions drawn from data are often weak or insufficient to fully support their ideas	criteria in the range of 2-4.
	GE-LO-2	1	Students exhibit a strong ability to identify and address complex problems presented in the exam. They demonstrate a clear understanding of the situation and think systematically, generating creative solutions with a flexible approach	Students exhibit a strong ability to identify and address complex problems presented in the exam. While they understand the situation, their problem-solving may lack systematic thinking, and their solutions are not effective or flexible	Students exhibit an ability to identify and address complex problems presented in the exam. They struggle to think systematically and may provide solutions that are overly simplistic, lacking creativity or flexibility in their approach	The student is unable to demonstrate skills according to the scoring criteria in the range of 2-4.