

GENERAL EDUCATION, KMITL

COURSE SYLLABUS

Course Code	96642034	Course Title	Law and regulations in aviation industry				
Total Credits	(3)	Semester/ Year of Study	1/2568	Section	Aeronautical Engineering, Logistics Management Program	Date - Time	30 June 2025 – 14 November 2025
Course Description (English)	International Civil Aviation Organization (ICAO) and other international and European organizations' air law. Aviation Regulators in Thailand. Legal and institutional framework of International air law regimes. Impacts of Air Law towards aviation industry. Legal issues in aviation industry.						
Course Instructors	Dr. Siriporn Yenpiem						
Teaching Assistant (if any)							
Counselling Schedule	Every Tuesday & Wednesday (1300-1600) Room UTP			Teaching Language	☐ Thai ☒ English ☐ Others, please specify.....		
Website or Online Teaching Method (if any)							
Course Learning Outcomes							
By the end of this course, the student will be able to CLO-1. Learners will be able to explain and discuss the concepts and rules of international air law. CLO-2. Learners will be able to apply their knowledge and understanding to assist their national administration in improving implementation CLO3. Learners will be able to access and understand digital production of Aeronautical Information publication and new technology for Air Navigation.							

General Education Learning Outcome: GE-LO		
GE-LO	Value	
☒ GE-LO-1 Analytical and Critical Thinking	3	
☒ GE-LO-2 Complex Problem Solving	6	
☐ GE-LO-3 Creativity		
☐ GE-LO-4 Interpersonal Skills		
☒ GE-LO-5 Integrity and Perseverance	2	
☐ GE-LO-6 Active Learning and Learning Strategies		
☐ GE-LO-7 Resilience, Stress Tolerance and Flexibility		
☒ GE-LO-8 Leadership and Social Influence	1	
☒ 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	Course Introduction Law and regulations, ICAO (19 Annexes) Text Book/Required Material https://iaai.kmitl.ac.th/innovation-and-service-center/	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	1/2 July 2025 (0900 – 1200)
2	Air Law and regulations (different between Law and regulations Such as Departures from international standards and procedures for air navigation of air transportation (Regulation or Law as shown in Convention, Air Navigation Act etc. Conclusion Law and regulations Air Transportation Annex	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	8/9 July 2025 (0900 – 1200)

Week	Topic/Sub-topic	Activities	Notes
3	- What are freedoms of the air? - Freedom of the Air transportation Aircraft nationality and registration Certification of registration	Lecture and Discussion [✓] Internet [✓] PowerPoint [✓] Clip/VDO	15/16 July 2024 (0900 – 1200)
4	Airworthiness of Aircraft for air transportation (Annex *8=10) ANNEX 2 Rules of Flight (What are differences between IFR and VFR rules?)	Lecture and Discussion [✓] Internet [✓] PowerPoint [✓] Clip/VDO	22/23 July 2024 (0900 – 1200)
5	ANNEX 2 Rules of Flight Law and regulations in air navigation: Introduction	Lecture and Discussion [✓] Internet [✓] PowerPoint [✓] Clip/VDO	29/30 July 2025 (0900 – 1200)
6	Air Traffic management (ATM,ATS), Risk assessment CNS/UTM Man and Unmanned Aircraft discuss and analyst complex problem solving in regulations in aviation industry	Lecture and Discussion [✓] Internet [✓] PowerPoint [✓] Clip/VDO	5/6 August 2024 (0900 – 1200)
7	Flight Plan Airspace classification Format ATM and UTM	Lecture and Discussion [✓] Internet [✓] PowerPoint [✓] Clip/VDO	13 August 2024 (0900 – 1200)
8	Flight Plan Airspace classification Format ATM and UTM Squawk Code and meaning Conventional Navigation Quiz 1	Lecture and Discussion [✓] Internet [✓] PowerPoint	19/20 August 2024 (0900 – 1200)

Week	Topic/Sub-topic	Activities	Notes
		• [✓] Clip/VDO Midterm Examination 26/27 August 2025 (0900 – 1200) -Multiple choice questions -Written exams, including short answers and essay questions. Analyst complex problem solving in regulations in aviation (Compare different rule of flights)	
9	VFR Procedures and Instrument flight Procedures	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	2/3 September 2024 (0900 – 1200)
10	Performance based Air Navigation (PBN)	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	9/10 September 2024 (0900 – 1200)
11	Performance based Air Navigation (PBN) Air Navigation system Airspace based Navigation ABAS, SBAS, GBAS System. Article 28 : ICAO Convention	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	16/17 September 2024 (0900 – 1200)
12	Air navigation facilities, PAPI Airspeed terms of altitudes & Hight, Aviation Knowledge	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	23/24 September 2024 (1PM – 4PM)

Week	Topic/Sub-topic	Activities	Notes
13	Air Traffic Flow and Capacity Management Prepare Present what you have learned?	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	30 Sep /1 October 2024 Test & Group presentation (3 hours)
14	Final Presentation: Present what you have learned?	Discussion	7/8 October 2025
15	Review/ Quiz 2	Lecture and Discussion • [✓] Internet • [✓] PowerPoint • [✓] Clip/VDO	Review/ Quiz 2 14/15 October 2025
		Final Quiz -Multiple choice questions -Written exams, including short answers and essay questions. Analyst complex problem solving in regulations in aviation (Compare different rule of flights)	

Evaluation Plan

Assessment Activities	Value	Score	Week of Evaluation	Notes
Attendance	2	4	Throughout the semester	GE-LO-5
In – Class Activity Participation	1	4	Throughout the semester	GE-LO-8
Assignment discusses and analyst complex problem solving in regulations in aviation industry (Essay	1 2	12	Throughout the semester	GE-LO-11 GE-LO-2
Group Presentation (Performance Based Navigation)	2	12	Tuesday/ Wednesday	GE-LO-9
Quiz	3 4	28	Tuesday/ Wednesday	GE-LO-1, GE-LO-2
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)
Attendance	GE-LO-5	2	90% Attendance	80% Attendance	70% Attendance	80% Attendance
In – Class Activity Participation	GE-LO-8	1	5 discussions. give concept, Leading in the group	4 discussions, give concept, leading in the group	3 discussions, give concept, leading in the group	1-2 discussion, give concept, leading in the group
Assignment	GE-LO-11	1	Very good that shown 90% in content and concept by AI communication and Internet are the most useful of information.	good that shown 80% in content and concept by AI communication and Internet are almost correct and useful.	Fair that shown 70 % in content and concept by AI communication and Internet	The content is not correct.
	GE-LO-2	2				
Group Presentation	GE-LO-9	2	The presentation is well-organized, engages the audience effectively, demonstrates a deep understanding of the topic, and uses clear and captivating visuals.	The presentation is organized and covers the main points. The speaker engages the audience and demonstrates a good understanding of the topic, but there may be minor issues with clarity or engagement	The presentation covers some of the key points but lacks depth and organization. The speaker may struggle with clarity or engagement, and the visuals may not effectively support the presentation	The presentation is poorly organized, lacks clarity, and fails to engage the audience. Key points are missing or unclear, and the speaker shows limited understanding of the topic.
Quiz	GE-LO-1	3	Score in the 81st -100th percentile	Score in the 66th -80th percentile	Score in the 51st -65th percentile	Score below the 50th percentile
	GE-LO-2	4				Score below the 50th percentile
		15				