

Teaching Plan

College of Art, Media and Technology Software Engineering

Course

953103 Programming Logical Thinking First Semester, Academic Year 2019

1. Lecturer : Prompong Sugunnas		(701)
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Passakorn Phannachitta/Pathathai Na Lampoon (702)

2. Learning Style: (/) Lecture (/) Laboratory

3. Prerequisites : None

4. Credit : 2 (1–2–4)

5. Course Objective

Students are able to

- 1. develop the software by think systematically
- 2. develop the software by think logically
- 3. manage basic software development

6. Course Content

Week	Content	Hour	Teaching	Instructor
no			Activity	
1	– Course policy announcement	1	Lecture	Prompong Sugunnasil
	– Introduction to Programming Logical Thinking			(701)
	-Introduction to AppInventor			Passakorn Phannachitta
				/Pathathai Na Lampoon
				(702)
2	- Sequence structure	1	Lecture	Prompong Sugunnasil
	- Flow chart			(701)
	- Pseudocode			Passakorn Phannachitta
	- Introduction to draw.io	2	Lab	/Pathathai Na Lampoon
	- Flow chart			(702)
	- Pseudocode			
	After-class :		1	Self-studies
	https://www.youtube.com/watch?v=G41G_PEWFjE			
3	– Data type and variable	1	Lecture	Prompong Sugunnasil
	– Arithmetic operation			(701)
	– Expression and precedence			Passakorn Phannachitta
	-Problem set in arithmetic operation and	2	Lab	/Pathathai Na Lampoon
	precedence			(702)
4	– Problem solving strategy	1	Lecture	Prompong Sugunnasil
	– First program in AppInventor	2	Lab	(701)

Week	Content	Hour	Teaching	Instructor
no			Activity	
	- Simple program			Passakorn Phannachitta
				/Pathathai Na Lampoon
				(702)
5	-Logical operation	1	Lecture	Prompong Sugunnasil
	-Relational operation			(701)
	-Boolean operation			Passakorn Phannachitta
	- Precedence			/Pathathai Na Lampoon
	-Problem set in comparative operation	2	Lab	(702)
	- Simple program			
	-User interface design			
	After-class :	1	Self-studies	
	https://www.youtube.com/watch?v=m2Ux2PnJe6E			
	https://www.youtube.com/watch?v=JtL7w6ja5il			
6	- Selection operation	1	Lecture	Prompong Sugunnasil
	-Selection structure design technique			(701)
	- Flow chart of selection operation			Passakorn Phannachitta
	-Programming problem set in selection operation	2	Lab	/Pathathai Na Lampoon
				(702)
	After-class :	1	Self-studies	
	https://www.youtube.com/watch?v=mgooqyWMTxk			
	https://www.youtube.com/watch?v=G2hdlhDYICw			
7	- Repetition Operation (While-Loop)	1	Lecture	Prompong Sugunnasil
	– Repetition structure design technique			(701)
	- Flow chart of repetition operation			Passakorn Phannachitta
	- Programming problem set in repetition operation	2	Lab	/Pathathai Na Lampoon
	(while-loop)			(702)
8	- Repetition Operation (For-Loop)	1	Lecture	Prompong Sugunnasil
	– Repetition structure design technique			(701)
	- Programming problem set in repetition operation	2	Lab	Passakorn Phannachitta
	(for-loop)			/Pathathai Na Lampoon
	- Advance repetition programming technique			(702)
	- Midterm Exam - [4 th October 2019 15.3	0-18.3	0] – Midterm E	xam-
9	-Nested Flow Operation	1	Lecture	Prompong Sugunnasil
	-Programming problem set in nested structure	2	Lab	(701)
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Week	Content	Hour	Teaching	Instructor
no			Activity	
	operation			Passakorn Phannachitta
				/Pathathai Na Lampoon
				(702)
10	-Concept of data collection	1	Lecture	Prompong Sugunnasil
	-Array declaration	2	Lab	(701)
	-Array usage			Passakorn Phannachitta
	-Programming problem set in array			/Pathathai Na Lampoon
				(702)
	After-class :	1	Self-studies	
	https://www.youtube.com/watch?v=gm3GPfUq0Wg			
11	-Pre-Defined Method	1	Lecture	Prompong Sugunnasil
	-User-Defined Method			(701)
	-Programming problem set in method	2	Lab	Passakorn Phannachitta
				/Pathathai Na Lampoon
				(702)
12	-Introduction to Java Programming	1	Lecture	Prompong Sugunnasil
	-Java programming construct	2	Lab	(701)
				Passakorn Phannachitta
				/Pathathai Na Lampoon
				(702)
13	-Translation of Program Design to Source Code	1	Lecture	Prompong Sugunnasil
	-Converting flowchart/pseudocode to source code	2	Lab	(701)
	-Problem set			Passakorn Phannachitta
				/Pathathai Na Lampoon
				(702)
	– Final Exam – [30 th November 2019 08.00–11.00] – Final Exam–			

Remark: The examination date for both midterm and final can be changed later. Please check with the lecturer and the formal announcement.

7. Course Requirements

- 7.1 Lectures in class (1 hours per week)
- 7.2 Lab Practice (2 hours per week)
- 7.3 Unannounced Quizzes
- 7.4 Assignments
- 7.5 Lab examination

7.7 Project assignment

8. Grading System

	8.1 Lecture attendance and quizzes					
		Lecture Attendance		5 %		
		Quiz		5 %		
8.2 Lab attendance						
		Attendance		5 %		
		Achievement		5 %		
	8.3	3 Assignment		5 %		
	8.4	4 Midterm Examination		25 %		
	8.5 Final Examination			30 %		
	8.6 Lab Examination			10 %		
	8.7 Project Assignment			10 %		
	Total			100 %		
	The	e semester grade is computed by				
	(/) Criteria Reference (() Group Reference		
9. Grad	de P	olicy				
	\square Any late assignment submissions will either be penalized (at least 50% reduction) or NOT be					
	accepted.					
		If a student is late more than 15 minute i	n either	lab or lecture, you will be regarded as absence.		
	\Box If a student needs to be absent with <u>legitimate</u> causes, please notify the lecturer or TA <u>be</u>					
		the date of absence.				
		The student who has come to class less t	than 80°	% will NOT allow to take the <u>FINAL EXAM</u> .		
	\Box The student who does not take the final exam gets " F " for this course.					
	The work that does not strictly follow the instruction is not accepted.					
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10. Co			id Apps			
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10. Co				ds and the rest of us		