



Eastern Technological College Dual Language Syllabus (EDL)

Computer Department

	Term	<u>1</u>	Year	<u>2021</u>
Subject Code	<u>20204 - 2004</u>	Course Name	<u>Principles of Programming</u>	CODE <u>3163</u>
Study Hours	<u>4</u>	Hours/week	Unit	<u>2</u> Credit
Level	<u>Vocational</u>	Year	<u>2</u>	Department <u>Computer</u>

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Course Objectives:

1. To have better understanding in solving problems using algorithmic analysis (Algorithm).
2. To acquire skills in writing Flowchart.
3. To acquire skills in writing Pseudo Code from Flowcharts.

Course Competency:

1. Demonstrate knowledge in problem solving using algorithmic analysis (Algorithm).
2. Show proficiency in writing Flowchart.
3. Demonstrate knowledge in programming using pseudo codes and flowcharts.

Course Description:

Study and practice about principles of programming, analysis, algorithms and computer process. Learn the basics on how computer process information. Practice problem solving in an algorithmic approach. Write a flowchart and transform it into pseudo code to develop a simple computer program.

Week	Course Content
1	System Development Life Cycle and Element of a Computer System (Hardware, Software, Peopleware, Data, Procedure)
2	Process Analysis (Input and Output Process)
3	Process Analysis (Input and Output Process)
4	Analysis using IF and IF-ELSE statements
5	Analysis using IF and IF-ELSE statements
6	Analysis using IF and IF-ELSE statements
7	Analysis using IF and IF-ELSE statements
8	<b>MIDTERM EXAMINATION</b>
9	<b>MIDTERM EXAMINATION (PRACTICAL)</b>
10	Analysis using Loop: For statement

Week	Course Content
11	Analysis using Loop: For statement
12	Analysis using Loop: Do-While statement
13	Analysis using Loop: Do-While statement
14	Analysis using Loop: While statement
15	Analysis using Loop: While statement
16	Analysis using Loop: While statement
17	<b>FINAL EXAMINATION (PRACTICAL)</b>
18	<b>FINAL EXAMINATION</b>

## EVALUATION

Grading System		Percentage of Total Score		
No. 1	System Development Life Cycle and Elements of Computer System	Score	5	%
No. 2	Understanding Input-Output Process	Score	5	%
No. 3	Writing Flowchart	Score	5	%
No. 4	Analysis and Flowchart using IF and IF-Else	Score	5	%
No. 5	Analysis and Flowchart using Loop: For	Score	5	%
No. 6	Analysis and Flowchart using Loop: Do-While	Score	5	%
No. 7	Analysis and Flowchart using Loop: While	Score	5	%
No. 8	<b>Midterm Examination</b>	Score	15	%
No. 9	<b>Final Examination</b>	Score	20	%
Academic Conduct and Discipline		Percentage of Total Score		
- Attendance Policy ( <i>student is expected to come to every class on time 1 point per day</i> )		Score	10	%
- Academic Integrity ( <i>showing honesty and creativity in Exams, Homeworks and Quizzes</i> )		Score	5	%
- Classroom Etiquette ( <i>no using of mobile phones, showing respect to classmates and teacher</i> )		Score	5	%
- Class Participation ( <i>students are expected to participate class discussions and work group</i> )		Score	10	%
		<b>TOTAL SCORE</b>	<b>100</b>	<b>%</b>
Absence Policy				
Absence of no more than <b>8</b> period (20 % of total study time)				
Name of Instructors				
Teacher Supasit Sutthagul		Teacher Somchai Pongthuean		
Teacher Punthuch Buarungsawat		Teacher Wasan Sribur		
Teacher Washirawit Wongphakdee		Teacher Kittinat Leodrattanapatai		
Teacher Kittisak Thongkham		Teacher Jennifer Firat		