Anan College		Year	2024		Course Title	Basic Practice in Civil Engineering

Course Information

Course Code	1813601		Course Category	Specialized / Compulsory
Class Format	Seminar		Credits	School Credit: 2
Department	Course of Civil Engineering		Student Grade	3rd
Term	Year-round		Classes per Week	前期:2 後期:2
Textbook and/or Teaching Materials	The teacher distributes documents and data			
Instructor	Osada Kengo,Kagemasa Shuka			

Course Objectives

1. Able to use the essential functions of Word, Excel, and PowerPoint.
2. Able to explain that many algorithms for a helpful solution exist to one problem.
3. Able to develop and run a simulation program that fits a given problem and can obtain simulation results.

Rubric

	Ideal Level	Standard Level	Minimum Level
Course Objective 1	Able to use the various functions of Word, Excel, and PowerPoint.	Able to use the essential functions of Word, Excel, and PowerPoint.	Able to use a little function of Word, Excel, and PowerPoint.
Course Objective 2	Able to explain enough that many algorithms for a helpful solution exist to one problem.	Able to explain that many algorithms for a helpful solution exist to one problem.	Able to slightly explain that many algorithms for a helpful solution exist to one problem.
Course Objective 3	Able to develop properly and run a simulation program that fits a given problem and can obtain simulation results.	Able to develop and run a simulation program that fits a given problem and can obtain simulation results.	For a learner, it is challenging to develop and run a simulation program that fits a given problem.

Assigned Department Objectives

学習・教育到達度目標 B-4 学習・教育到達度目標 D-1

Teaching Method

Outline	Students study fundamental functions of Word, Excel, and PowerPoint that are crucial for jobs and research in the future through some problems: data processing, making figures, and making documents. Moreover, students learn how to develop and run calculation programs through some problems.
Style	The teacher distributes documents and data on problem. The teacher evaluates academic results based on portfolios submitted by students. (The learning time: 60 hours)
Notice	

Characteristics of Class / Division in Learning

☐ Active Learning	☐ Aided by ICT	☐ Applicable to Remote Class	☐ Instructor Professionally Experienced

Course Plan

			Theme	Goals
1st Semester	1st Quarter	1st	Orientation Document making using Word	Able to draw up the document
		2nd	Document making using Word	Able to draw up the document
		3rd	Document making using Word Making PDF file	Able ton draw up the document Able to change the Word file to a PDF file
		4th	Document making using Word Making PDF file	Able to draw up the document Able to change the Word file to a PDF file
		5th	Document making using Word Making PDF file	Able to draw up the document Able to change the Word file to a PDF file
		6th	The calculation, data processing, and making of figures using Excel	Able to calculate, process data, and make figures using Excel
		7th	The calculation, data processing, and making of figures using Excel	Able to calculate, process data, and make figures using Excel
		8th	The calculation, data processing, and making of figures using Excel	Able to calculate, process data, and make figures using Excel
	2nd Quarter	9th	The calculation, data processing, and making of figures using Excel	Able ton calculate, process data, and make figures using Excel
		10th	The calculation, data processing, and making of figures using Excel Making documents using PowerPoint	Able to calculate, process data, and make figures using Excel Able to understand the handling methods of PowerPoint
		11th	The calculation, data processing, and making of figures using Excel Making documents using PowerPoint	Able to calculate, process data, and make figures using Excel Able ton understand the handling methods of PowerPoint
		12th	The calculation, data processing, and making of figures using Excel Making documents using PowerPoint	Able to calculate, process data, and make figures using Excel Able ton understand the handling methods of PowerPoint

		13th	The calculation, data processing, and making of figures using Excel Making documents using PowerPoint	Able to calculate, process data, and make figures using Excel Able to understand the handling methods of PowerPoint
		14th	The calculation, data processing, and making of figures using Excel Making documents using PowerPoint	Able to calculate, process data, and make figures using Excel Able to understand the handling methods of PowerPoint
		15th	The calculation, data processing, and making of figures using Excel Making documents using PowerPoint	Able to calculate, process data, and make figures using Excel Able to understand the handling methods of PowerPoint
		16th		
2nd Semester	3rd Quarter	1st	Outline of programming language Foundation of a simulation program The practice of developing and running a simulation program	Able to understand that there are various programming languages Able to understand the foundation of a simulation program Able to understand the foundation of developing and running a simulation program
		2nd	The practice of developing and running a simulation program	Able to understand the foundation of developing and running a simulation program
		3rd	The practice of developing and running a simulation program	Able to understand the foundation of developing and running a simulation program
		4th	The practice of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		5th	The practice of developing and running a simulation program Problem 1 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		6th	Problem 1 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		7th	Problem 1 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		8th	Problem 1 of developing and running a simulation program Problem 2 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
	4th Quarter	9th	Problem 2 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		10th	Problem 2 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		11th	Problem 2 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		12th	Problem 3 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		13th	Problem 3 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		14th	Problem 3 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		15th	Problem 3 of developing and running a simulation program	Able to develop and run a simulation program Able to obtain simulation results for given problem
		16th		

Evaluation Method and Weight (%)

	Midterm/Final Exam	Quiz	Portfolio	Presentation/Attitude	Other	Total
Subtotal	0	0	100	0	0	100
Basic Proficiency	0	0	20	0	0	20
Specialized Proficiency	0	0	80	0	0	80
Cross Area Proficiency	0	0	0	0	0	0