Basic Course Information Course Number	02005087	Subject Category	Compulsory (C)	]
Clase Format Department	Lecture	Credit Type and Number of Credits Student Category	1.5 Year 2	4
Department Period of Study Required Materials	Computer Semester 1 Hardware: Laptop and Tablet, So	Student Catagory Classes per Week Itware: Visual Studio Code	Year 2 1 (with Python), Visual Studio 2022, .	1
hequired Materiale Instructor		Pirapat Tangsuknirun	Yuki Yoshikawa	]
Course Objective This course builds the knowledge and i knowledge and understanding of progr penefits of Python's modules.	understanding introduced in th ramming language by practicin	e previous subject and g solving scientific comp	extends students' prior uting problems with the	
	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail	1
Evaluation (Rubrio) Understanding how to make an environment or programming and debugging own environment	(Very Good) Demonstrates very good	Achievement (Good) Demonstrates good		
401.	Demonstrates very good knowledge and understanding of how to create an environment for python programming and debugging.	Demonstrates good knowledge and understanding of how to create an environment for python programming and debugging.	Lacks the appropriate knowledge and understanding of how to create an environment for python programming and debugging.	
Understanding how to use a module of NumP on python program to solve the drill-problem a he exercise task.	in the right way.	Demonstrates good knowledge and understanding how to use basic Numpy module in the right way.	Lacks the appropriate knowledge and understanding how to use basic Numpy module in the right way.	
Understanding how to use a module of Matpitotib and SciPy module on python orgam to solve the drill-problem at the avercise task.	Demonstrates very good knowledge and understanding how to use Matplotib and Gopy module correctly in the given way.	Demonstrates good knowledge and understanding how to use Matplotlib and Scipy module correctly in the given way.	Lacks the appropriate knowledge and understanding how to use Matplottle and Scipy module correctly in the given way.	
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				1
C(1) Ability to operate and administr	Relationship with Learning			1
C(2) Ability to understand the open C(5) Ability to apply the update teol system to support the development Teaching Method				1
Outline: Class Format: Please Note :	Lecture. Pr Students are required to	Lecture and Practice actice and Homework A p ask any questions aft	Assignments er sufficient self-learning.	
Course Plan Semester 1	Contents and Met	hod of Course	Goale	Related MCC
1st week	Guidance: Introduction. Confirmation of Isotop setting and NumPy		Understanding Guidance: Introduction. Confirmation of laptop setting and NumPy	V-D 1 V-D 7 V-D 8
2nd week	NumPy		Understanding NumPy	V-D 1 V-D 7 V-D 8
3rd week	NumPy		Understanding NumPy	V-D 7 V-D 7 V-D 8
4th week	NumPy		Understanding NumPy	V-D 7 V-D 8
5th week	Matolotiko		Understanding Matolotlib	V-D 7 V-D 8
6th week	Matolotlio		Understanding Matolotlib	V-D 1 V-D 7 V-D 8
7th week	Matolotik/HTTP Client		Understanding Matplotlb/HTTP Client	V-D 1 V-D 7 V-D 8
8th week	Review before mid-term report		Reviewing before mid-term report	V-D 1 V-D 7 V-D 8
9th week	Mid term report		Practicing Mid term report	V-D 1 V-D 7 V-D 8
10th week	Beturn of mid-term report		Returning mid-term report	
11th week	Replaced by Friday class		Friday class	
12th week	SciPy		Understanding SoPy	V-D 1 V-D 7 V-D 8
13th week	Pandas		Understanding Pandas	V-D 1 V-D 7 V-D 8
14th week	Pandas		Understanding Pandas	V-D 1 V-D 7 V-D 8
15th week	Pandas & SoPy		Understanding Pandas & SoPy	V-D 1 V-D 7 V-D 8
16th week	Small Pro	Small Project		V-D 1 V-D 7 V-D 8
17th week	Small Project		Developing and presenting Small Project	V-D 1 V-D 7 V-D 8
18th week	Review before final exam		Reviewing before final exam	
19th week	Final Exam		Final exam	
20th week	Final Ex	am	Final exam	
				Do
	Examination	Quiz	Mutual Evaluations between students	Report Persiele Oth
Basic Ability Technical Ability	20	6		20 6 15 e