

Module Code	21349015	Course Term
Course Subject Name	<b>Information Processing and Practices</b>	<b>Autumn Semester</b>
Course Tutor	<b>Ton V. TA</b>	
Credit	3	Taught Day
Schools	School of Agriculture	<b>THU-3,4</b>
Taught Year	The 3rd year	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Common basic subject	
Course Requirements	Class attendance, IUPE laptops	Thursday, 3rd & 4th period (13:00-16:20)
Course Requirement (Pre-requisite)	None	
<b>Course Outline</b>		
To study fundamentals of programming concepts and skills needed for solving basic problems using MATLAB		
<b>key words</b>		
MATLAB, Programming		
<b>Study Objectives (General)</b>		
How to write codes in MATLAB programming and then solve real problems		
<b>Study Objectives (Specific)</b>		
To learn and practise		
a) command window, graph window, programming techniques in MATLAB		
b) simple and complex calculations using Matlab		
c) numerical computations and analyses		
d) mathematical concepts upon which numerical methods rely		
e) Matlab programming environment competently		
<b>Course Plan</b>		
1. Introduction to MATLAB		
2. Introduction to MATLAB programming		
3. Selection Statements		
4. Loop Statements		
5. Vectorized Code & Project 1		
6. MATLAB Programs		
7. MATLAB Programs (continued)		
8. String Manipulation		
9. Data Structures & Project 2		
10. Advanced File Input and Output		
11. Advanced Functions		
12. Advanced Topics for Problem Solving with MATLAB & Project 3		
<b>Course Approaches</b>	Lectures, class exercises, and three projects	
<b>Textbooks</b>	MATLAB: A Practical Introduction to Programming and Problem Solving, Stormy Attaway	
<b>Reference Books</b>	Exercises in Computational Mathematics with MATLAB, Tom Lyche and Jean-Louis Merrien	
<b>Study consultation (office hour)</b>	Make an appointment with the instructor by email or phone	
	Office: Rm 786, Bldg W5, Ito campus	
	Email: ta.viet.ton.050@m.kyushu-u.ac.jp	Phone: 092-802-4770
<b>Exams/Results Evaluation Method</b>	Attendance: 10% Project i: 30% (i=1,2,3)	
<b>Others</b>		