

Module Code	19349015	Course Term
Course Subject Name	Information Processing and Practices	Autumn Semester
Course Tutor	Ton V. TA	
Credit	3	Taught Day
Schools	School of Agriculture	FRI-1,2
Taught Year	The 3rd year	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Common basic subject	
Course Requirements	Class attendance, IUPE laptops	
Course Requirement (Pre-requisite)	None	
Course Outline		
To study fundamentals of programming concepts and skills needed for solving basic problems using MATLAB		
key words		
MATLAB, Programming		
Study Objectives (General)		
How to write codes in MATLAB programming and then solve real problems		
Study Objectives (Specific)		
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		
Course Plan		
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		
Course Approaches		
Lectures, class exercises, and three projects		
Textbooks		
MATLAB: A Practical Introduction to Programming and Problem Solving, Stormy Attaway		
Reference Books		
Exercises in Computational Mathematics with MATLAB, Tom Lyche and Jean-Louis Merrien		
Study consultation (office hour)		
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		
Exams/Results		
Attendance: 10% Project i: 30% (i=1,2,3)		
Evaluation Method		
Others		

