Module Code	21349008	Course Term
Course Subject Name	**Physical Mathematics and Practices**	Autumn Semester
Course Tutor	**Ton V. TA**	
Credit	3	Taught Day
Schools	School of Agriculture	MON-3,4
Taught Year	**The second year**	
Campus	Ito campus	
Subject Area	Lecture	
Course Subject Classification	Common basic subject	Monday, 3rd & 4th period (13:00-16:20)
Course Requirements	Class attendance	
Course Requirement (Pre-requisite)	None	

Course Outline

To study basic concepts and techniques of mathematics, and their applications in other fields

key words

Differentiation, Integration, Matrices, Differential Equations

Study Objectives (General)

How to use mathematical tools for solving realistic scientific and engineering problems

Study Objectives (Specific)

To learn and practise
a) fundamental concepts on calculus, algebra, and ordinary and partial differential equations
b) applications of mathematics in physics and engineering

Course Plan

1. Infinite Series and Power Series
2. Complex Numbers
3-4. Differentiation
5-6. Integration
7. Matrices and Determinants & Midterm exam
8. Vector Analysis
9. Fourier Series & Transforms
10. Ordinary Differential Equations and Applications
11. Partial Differential Equations and Applications
12. Functions of a Complex Variable & Final exam

Course Approaches	Lectures, class exercises, assignments, exams
Textbooks	Mathematical Methods in the Physical Sciences, Third Edition, Mary L. Boas
Reference Books	Higher Engineering Mathematics, Sixth Edition, John Bird
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 Evaluation Method	Attendance: 20% Assignments: 20%
	Midterm exam: 30% Final exam 30%
Others	