



MODULE HANDBOOK

ADVANCED PARTIAL DIFFERENTIAL EQUATIONS

MASTER DEGREE PROGRAM
DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCE AND DATA ANALYTICS
INSTITUT TEKNOLOGI SEPULUH NOPEMBER

MODULE HANDBOOK

ADVANCED PARTIAL DIFFERENTIAL EQUATIONS

Module name	Advanced Partial Differential Equations	
Module level	Master	
Code	KM185380	
Course (if applicable)	Advanced Partial Differential Equations	
Semester	Fall (Ganjil)	
Person responsible for the module	Kistosil Fahim, S.Si, M.Si	
Lecturer	Kistosil Fahim, S.Si, M.Si	
Language	Bahasa Indonesia and English	
Relation to curriculum	Master degree program, elective, 3 rd semester.	
Type of teaching, contact hours	Lectures, <60 students	
Workload	1. Lectures : $2 \times 50 = 100$ minutes per week. 2. Exercises and Assignments : $2 \times 60 = 120$ minutes (2 hours) per week. 3. Private learning : $2 \times 60 = 120$ minutes (2 hours) per week.	
Credit points	2 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.	
Mandatory prerequisites	Calculus II	
Learning outcomes and their corresponding ILOs	Course Learning Outcome (CLO) after completing this module,	
Content	<ul style="list-style-type: none"> • PDP Linear and Non-Linear • Variational methods • Free Boundary Value Problems 	
Study and examination requirements and forms of examination	<ul style="list-style-type: none"> • In-class exercises • Assignment 1, 2, 3 • Mid-term examination • Final examination 	
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.	

Reading list	Main : 1.
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