



MODULE HANDBOOK

Topics of Mathematical Modelling

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

MODULE HANDBOOK

Topics of Mathematical Modelling

Module name	Topics of Mathematical Modelling
Module level	Postgraduate
Code	KM185386
Course (if applicable)	Topics of Mathematical Modelling
Semester	Fall
Person responsible for the module	Prof. Dr. Basuki Widodo, M.Sc
Lecturer	Prof. Dr. Basuki Widodo, M.Sc
Language	Bahasa Indonesia and English
Relation to curriculum	Master degree program, Elective , 3 rd semester.
Type of teaching, contact hours	Lectures, <60 students
Workload	<ol style="list-style-type: none"> 1. Lectures: $2 \times 50 = 100$ minutes per week. 2. Exercises and Assignments: $2 \times 60 = 120$ minutes (3 hours) per week. 3. Private learning: $2 \times 60 = 120$ minutes (3 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	-
Learning outcomes and their	Course Learning Outcome (CLO) after completing this module, <ol style="list-style-type: none"> 1. Students are able to assess the new topics of mathematical modelling

corresponding PLOs	<p>2. Students are able to assess the paper / paper relating on the topic</p> <p>3. Students are able to present a role in the form of presentations and writing</p>
Content	<p>On this subject, topic-topic presented the latest in the field of optimization. Study of paper and related paper presented the topic for the next student in the form of presentation. From this study are expected to emerge thesis topics.</p> <p>Subject:</p> <ol style="list-style-type: none"> 1. The items you just about mathematical modelling 2. Mathematical modelling Recent Developments
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	Text books and related Paper