MODULE HANDBOOK
ANALYSIS II

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

Module name	**Analysis II**
Module level	Undergraduate
Code	KM184601
Course (if applicable)	Analysis II
Semester	Spring (Genap)
Person responsible for the module	**Drs. Sadjidon, M.Si**
Lecturer	**Drs. Sadjidon, M.Si**
Language	Bahasa Indonesia and English
Relation to curriculum	Undergraduate degree program, **mandatory**, 6th semester.
Type of teaching, contact hours	Lectures, <60 students
Workload	1. Lectures : 4 x 50 = 200 minutes per week. 2. Exercises and Assignments : 4 x 60 = 240 minutes (4 hours) per week. 3. Private learning : 4 x 60 = 240 minutes (4 hours) per week.
Credit points	4 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	Analysis I
Learning outcomes and their corresponding PLOs	Course Learning Outcome (CLO) after completing this module, CLO 1: Students are able to explain the definition of forecasting and quantitative forecasting methods CLO 2: Students are able to determine data patterns and trends CLO 3: Students are able to compare several forecasting models for time series data, and determine the best suitable model	

Content	In this course, students will be given an explanation of Riemann's integrated functions and the convergence of function sequences and function series as well as an understanding of topology in real space and continuous linear operators.
Study and examination requirements and forms of examination	● In-class exercises ● Assignment 1, 2, 3 ● Mid-term examination ● Final examination
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	Main: 1. Bartle,R,G.,Sherbert, 2010, " Introduction to Real Analysis, Fourth Edition 2. Bryan P. Rynne and Martin A Youngson, 2001, Linear Functional Analysis Supporting: -