Mathematics II

ETH Zurich 406-0252-AAL

Lecturer: Ana Cannas

Abstract

This course has main focus on *multivariable calculus* and is a continuation of Mathematics I.

Content

V. Functions of Several Variables and Partial Derivatives
VI. Multiple Integrals
VII. Integration of Vector Fields and Integral Theorems
VIII. Introduction to Partial Differential Equations

Main Bibliography

For course parts V-VII:
Thomas, G. B.: *Thomas' Calculus*, Part 2, Pearson Addison-Wesley.
For course part VIII: two chapters from
Kreyszig, E.: *Advanced Engineering Mathematics*, John Wiley & Sons.

Assistance (October - December and March - May):

Tuesdays and Wednesdays afternoon; please see website below for room and times.

Suggested Readings and Exercises

people.math.ethz.ch/~acannas/Teaching/mathematics_II.html

This self-study course in English is parallel to the ETH course in German 401-0252-00L.

Last update: 1/Sept/2023