

Field: IT
Module title: Mathematics II (B.3)
Preliminary conditions: Mathematics I (B.2)
Education aims: Familiarize students with elements of advance calculus of functions of one and multiple variables.
Education outcomes: The student has a basic knowledge of linear algebra and the theory of real functions necessary for the description and analysis of mechanical systems and processes. The student can use mathematical apparatus for mechanical issues and technological processes occurring in the area of production engineering.
Module type and contents: Complex polynomials and rational functions. Series of numbers, power series, expansions of functions. Improper integrals. Elements of differential and integral calculus of functions of two and three variables.
Educational methods: Lessons, classes.
Assessment methods: Examination.
ECTS credits: 6
Students workload (hs.): 150
Form Number of hours: 30
Author of a module: dr Karol Selwat
Module language: english