Course Name : Mathematical Analysis II

Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 128	B	Spring	3.00	1.00	0.00	3.50	5.00

Lecturer	Sofokli Garo, PhD
Assistant	
Course language	Albanian
Course level	Bachelor
Description	This course provides concepts about indefinite and definite integrals and their implementations. An important part of this course is differencial computation and solving differencial equations. The course concludes with knowledge about series and their kinds.
Objectives	Ne perfundim te kursit studentet duhet te dine konceptet dhe zbatimet e tyre qe lidhen me integralin e pacaktuar, integralin e caktuar dhe serite.
Core Concepts	The fundamental concepts are the following: 1. Indefinite integral 2. Definite integral 3. The differencial equation 4. Convergent and divergent series

Course Outline

Week	Topic
1	Indefinite integral
2	Fundemental elementary formulas
3	Implementation in exercises and problems
4	Definite integral
5	Computation of closed surfaces
6	Computation of volumes for solids revolved around x axis
7	Not proper integrals
8	Midterm test
9	Differencial equations
10	Equations with separated variables
11	Differencial homogeneous equations
12	The concept of arithmetic and geometric sequence
13	The convergent series
14	Divergent series. Types of divergent series
15	Review
16	Final Exam

Prerequisites	The student must attend the course at a minimum rate of 75%.
Literature	• Muka. V. Analiza Matematike
References	• Howard. V. Calculus. 6th edition

Course Outcome

1	Ne perfundim te kursit studentet do te kene bazen e nevojshme te njohurive matematike per te perballuar konceptet ne kurset profesionale te IT
2	Ne perfundim te kursit studentet do te kene bazen e nevojshme matematike per te ndjekur disiplina te tjera matematikore.

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	30
Quizzes	0	0
Projects	0	0
Term Projects	0	0
Laboratory	0	0
Class Participation	1	20
Total in-term evaluation percent		**50**
Final exam percent		**50**
Total		**100**

ECTS Workload (Based on Student Workload)

Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	0	0
Duties	0	0	0
Midterms	1	0	0
Final Exam	1	0	0
Other	3	21	63
Total Work Load			**127**
Total Work Load / 25 (hours)			**5.08**
ECTS			**5.00**