Course Name : Programim në Python							
Course Code	**Course Type**	**Regular Semester**	**Lecture (hours/week)**	**Seminar (hours/week)**	**Lab. (hours/week)**	**Credits**	**ECTS**
CMP 125	C	Fall	2.00	0.00	2.00	3.00	5.00

Lecturer	Ejona Bodo, Msc
Assistant	
Course language	Albanian
Course level	Program Profesional 2-Vjeçar
Description	This course will provide a comprehensive, fast-paced introduction to Python and the popular Python-based web framework Django.
Objectives	-Learn the basics of programming through Python -Learn the basics of modern web development in Python -Learn Django fundamentals
Core Concepts	Python Object-Oriented Programming Django Data Types Web development RESTful API-s

Course Outline

Week	Topic
1	Introduction to Python
2	Advanced Data Types in Python
3	Writing Iterative Code and Algorithms
4	Decomposition, Abstractions, Functions
5	Introduction to Object Oriented Programming
6	Python Classes and Inheritance
7	Testing, Debugging, Exceptions, Assertions
8	Introduction to Back-End Web Development using Django -HTTP protocol -MVC model -Virtual environment -Django structure -Generic Views -HTML templates -URL dispatcher
9	Back-End Web Development using Django -Generic Views -HTML templates -URL dispatcher
10	Project concept approval
11	Advanced Django for Web -Custom Views -GET and POST methods -URL shortener
12	Advanced Django for Web 2 -User model -Logic in templates -Querying models
13	Final Project and Presentation
14	Working with APIs -RESTful architecture -Request library
15	Exam Review Questions
16	Final Exam

Prerequisites	The student must attend the course at a minimum rate of 75%.
Literature	• Guttag, John. Introduction to Computation and Programming Using Python: With Application to Understanding Data Second Edition. MIT Press, 2016. ISBN: 9780262529624 • Django for Beginners: Learn web development with Django 2.0 [Vincent, William S.] ISBN-13: 978-1980377894, ISBN-10: 1980377898
References	• Downey, Allen, Jeffrey Elkner, and Chris Meyers. How to Think Like a Computer Scientist: Learning with Python. Green Tea Press, 2002. ISBN: 9780971677500. • Materiale ndihmëse/udhëzuese nga lektori i lëndës

Course Outcome

1	Provide students with good knowledge of Python programming
2	Learn students how to build a Django application, hands-on.
3	Provide an understanding of the role computation can play in solving problems.
4	Help students feel confident of their ability to write small programs that allow them to accomplish useful goals.

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	0	0
Quizzes	0	0
Projects	1	35
Term Projects	0	0
Laboratory	1	15
Class Participation	1	10
Total in-term evaluation percent		**60**
Final exam percent		**40**
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	4	56
Duties	2	4	8
Midterms	0	0	0
Final Exam	1	1	1
Other	0	0	0
Total Work Load			**129**
Total Work Load / 25 (hours)			**5.16**
ECTS			**5.00**