2025/4/9	
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Department	International College of Liberal Arts		
Semester	Spring 2025	Year Offered (Odd/Even/Every Year)	Every Year
Course Number	DATA160		
Course Title	Coding Bootcamp: Python		
Prerequisites	DATA150 Introduction to Python Programming (can be taken concurrently)		
Course Instructor	PARIDA Abhishek	Year Available (Grade Level)	1
Subject Area	Data Science	Number of Credits	1
Class Style	Workshop	Language of instruction	English

(NOTE 1) Depending on the class size and the capacity of the facility, we may not be able to accommodate all students who wish to register for the course

Course Description	A coding boot camp is an activity-oriented training session designed to prepare students with practical problem-solving skills; the boot camp is spread across ten days, each covering a module. A module consists of specific Python exercises/ questions for the students to practice and implement. Completing each exercise will give them a better understanding of Python and programming in general. We focus extensively on Python essentials by building on the introductory Python course. Students begin by practicing problems and work their way to problem-solving in an algorithmic way. They are also introduced to many coding interview questions and practice OOP concepts. Students are motivated for G.U.I. or web development projects based on their capacity.
Class plan based on course evaluation from previous academic year	N/A
Course related to the instructor's practical experience (Summary of experience)	N/A
Learning Goals	Python is an extensive topic, and each student has a different learning curve, so we offer a Bootcamp to fulfill their programming needs. A coding boot camp is an activity-oriented training session designed to prepare students with practical problem-solving sessions.

iCLA Diploma Policy	DP1/DP2

iCLA Diploma Policy

(DP1) To Value Knowledge - Having high oral and written communication skills to be able to both comprehend and transfer knowledge

(DP2) To Be Able to Adapt to a Changing World - Having critical, creative, problem-solving, intercultural skills, global and independent mindset to adopt to a changing world

(DP3) To Believe in Collaboration - Having a disposition to work effectively and inclusively in teams

(DP4) To Act from a Sense of Personal and Social Responsibility - Having good ethical and moral values to make positive impacts in the world

	Droblem Perced Learning (Warkshan Eigldwork		
Active Learning Methods	Problem-Based Learning∕Workshop, Fieldwork		
	N/A		
More details/supplemental information on Active Learning Methods			
	N/A		
	N/A		
Use of ICT			
	drastically increase their ability to retain the	Hours expected 1 hours to be spent	Hours expected 1 hours to be spent on
Contents of class preparation	regularly. One to two hours of study is required before the	class (hours	class review (hours per
	class preparation, and an equal amount of practice is needed after each lecture.	per week)	week)
	The best way to correspond during the course is the UNIPA sys		
	for updates related to classes. To have a better grade, be re revision of classwork regularly, and participate in-class qui		id attentive in the class, do a
Feedback Methods			

Grading Criteria			
Grading Methods	Grading Weights Grading Content		
Understanding of Concepts	25%	In-class Discussion, Classroom Exercises	
Code Functionality	25%	In-class Discussion, Classroom Exercises	
Timeliness	50%	In-class Discussion, Classroom Exercises	

	Eric Matthes- Python Crash Course: A Hands-On, Project-Based Introduction to Programming Al Sweigart- Automate the Boring Stuff with Python, 2nd Edition: Practical Programming for Total Beginners Zed Shaw-Learn Python 3 the Hard Way: A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code Andrew Bird et al. The Python Workshop
Other Reading Materials/URL	N/A
	Plagiarism is the dishonest presentation of others' work as if it were one's own. Duplicate submission is also treated as plagiarism. Depending on the nature of plagiarism, one may fail the assignment or the course. The repeated act of plagiarism will be reported to the University, which may apply additional penalties.

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N/A

Other Additional Notes (Outline crucial policies and info not mentioned above)

## (NOTE 2) Class schedule is subject to change

Class Schedule		
Class Number	Content	
	Miscellaneous practice problems using Python	
Class 1		
	Analysis of algorithms using Big-O notation	
	Analysis of algorithmis using dig-o notation	
Class 2		
	Analysis of algorithms using Big-O notation	
Class 3		
	Sorting and Searching algorithms	
	Sorting and searching argorithms	
Class 4		
01000 4		
	Sorting and Searching algorithms	
Class 5		
	Recursion	
Class 6		
	Recursion	
Class 7		
	Pandas	
Class 8		

	Deale
Class 9	Pandas
Class 10	Object Oriented Programming
Class 11	Object Oriented Programming
	Object Oriented Programming
Class 12	
	Object Oriented Programming
Class 13	
	Web Scraping using Beautifulsoup
Class 14	
	Web Scraping using Beautifulsoup
Class 15	