Department	International College of Liberal Arts		
Semester	Fall 2023	Year Offered (Odd/Even/Every Year)	Every Year
Course Number	DATA150		
Course Title	Introduction to Python Programming		
Prerequisites	None		
Course Instructor	PARIDA Abhishek	Year Available (Grade Level)	1
Subject Area	Data Science	Number of Credits	3
Class Style	Lecture	Class Methods	Face to face

(NOTE 1) Class Methods are subject to change

(NOTE 2) 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	This course introduces Python programming for students with little to no prior programming experience. The course covers essential concepts, syntax, and common usage of Python. The focus is on hands-on exercises to reinforce the learned concepts. The course is designed for liberal arts students who want to learn programming as a tool for creative expression, data analysis, or digital humanities. Students will be provided with assignments and in-class exercises to enhance their understanding of the concepts taught in class.
Class plan based on course evaluation from previous academic year	None
Course related to the instructor's practical experience (Summary of experience)	None
Learning Goals	This course aims to introduce students to the fundamentals of programming using the Python programming language. Upon completing this course, students will have a solid foundation in Python programming and be able to write basic programs to solve problems in various domains.

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

Active Learning Methods	Students are advised to take handwritten notes: this will drastically increase their ability to retain the information. Further, they are expected to practice regularly. One to two hours of study is required before the class preparation, and an equal amount of practice is needed after each lecture.
Use of ICT in Class	None

	None
Use of ICT outside Class	
Expected study hours outside class	A = Course credit: 3 B = Prescribed Class hours per credit: 20 C = Prescribed Total Study hours: 135 D = Total class hours: 60 (1 period of 75 minutes = 2 hours; A*B) Preparation and review hours: C - D = 75
Feedback Methods	The best way to correspond during the course is through the UNIPA system or direct emails. Please check the UNIPA account regularly for updates related to classes. To have a better grade, be regular in the study, active and attentive in class, do a revision of classwork regularly, and participate in-class quizzes.

Grading Criteria		
Grading Methods	Grading Weights	Grading Content
Assignments	40%	
Quizes	60%	

Required Textbook(s)	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
Other Reading Materials/URL	https://www.sicyon.com/resources/library/compute/Python_Crash_Course.pdf https://automatetheboringstuff.com/
Plagiarism Policy	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.
Other Additional Notes	None

(NOTE 3) Class schedule is subject to change

Class Schedule		
Class Number	Content	
Class 1	Opening remarks and introduction to Python: Features of Python: Python philosophy; Why study Python?; Python Installation	

	Python Basics: Arithmetic in Python; Variables and Strings, Expressions and Statements
Class 2	
	Variablas: Hase insut: f atring. Chrings
	variables, user input, i-string, strings
Class 3	
	Booleans; Operators
01255 4	
	Python containers: Lists; Python loops: for; while
a	
Class 5	
	Practice exercises
Class 6	
	Practice exercises
Class 7	
Class 8	
	Practice exercises
01233 9	
	Practice exercises
01 10	
	Practice exercises
Class 11	
	Practice exercises
Class 12	
	Python containers: Lists: Tuples: Sets: Dictionaries
Class 13	
	Practice exercises
Class 14	
	Comprehensions; Functions
Class 15	
	Practice exercises
01 10	
Glass 16	

	Practice exercises
Class 17	
	Practice exercises
Class 18	
	Lambda function; Map; Filter; Reduce; Zip
Class 19	
	Practice exercises
Class 20	
	Exceptions
Class 21	
	Practice exercises
Class 22	
	Nomen's Materiation
	Numpy, walpiolit
Class 23	
01000 20	
	Practice exercises
Class 24	
	Pandas
Class 25	
	Practice exercises
	Practice exercises
Class 27	
	Practice exercises
Class 28	
	Practice exercises
Class 20	
01000 20	
	Practice exercises
Class 30	