

GANPAT UNIVERSITY

				FAC	ULTY OF	COMPU	TER APPL	ICATIO	ONS				
Progra	mme		IT (Infra	astruct	ture Manag		Branch/S			Computer Applications			
			es) (Ho	ns.)									
Semester III						Version 1			1.0.0.0				
Effective from Academic Year 2025					2025-26		Effective for the batch Admitted in Ju					June 2024	
Subject	t Code	U43C4	C4IPP		Subject Name		Introduction to Python Programming						
		Tea	ching so	cheme	e			Exam	ination so	heme (M	arks)		
(Per week)		Lecture (DT)		Practical (Lab.)		Total		CE		S	SEE		
		L	TU	P	TW								
Credit		3	_	1	_	4	Theory		50		50	100	
Hours		3	_	2	_	5							
Objecti	ive:												
•		a Career	in Pyth	on Pr	ogramming	Language							
Pre-req	uisites:												
Basic K	nowledg	e of Prog	rammin	ng in C	C Language	Learning.							
Course	Outcom	ies:		_									
Name o													
CO1	Able to develop the python script-based utilities.												
CO2	Learn programmatic construct in python.												
CO3	Understand the concept of data structure in python.												
CO4		Expe	rience to	how	to work wi	th python f	functions an	d Handl	ing Except	tions.			
Mappir	ng of CO	and PC)										
Cos	PO1	PO2	PO3	3 1	PO4 PC	POO	6 PO7	PO8	PO9	PO10	PO11	PO12	
CO1	2	1	2	(0 2	1	2	0	1	3	2	1	
CO2	2	1	2		0 2	1	2	0	1	3	2	1	
CO3	2	2	3		1 3	1	2	0	1	3	2	1	
CO4	2	2	3		1 3	1	2	0	1	3	2	1	
	Syllabu	S											
Unit						Con	tent					Hrs. 10	
1	Fundamentals of Python What is Python Programming? Features of Python Programming, Installation of Python, Python												
		•	_		_	-	_	_		-	-		
	Variables, Python Keywords, Multi-line statement, Python Indentation, Python Comments, Multi-line Comments, Values and Variables, Python Identifiers												
2	Expres	sions an	d Arith	metic	. Condition	nal Execut	tion, Iterati	on				12	
-							ression, Pyt		cision Mak	ing: If Sta	itement,		
	IfEls	e Statem	ent, Th	e Elif	Statement,	Nested If	The Pass	Stateme	ent, While	Loop, Fo	r Loop,		
	Nested	Loops, 7	The Brea	ak Sta	tement, The	e Continue	Statement						
	i .											1	

3	Python List, Tuple, Dictionary and Set							
	Lists: Access List Items, Change List Items, Add List Items, Remove List Items, Sort Lists, Copy							
	Lists, Join Lists, Loop Lists, Tuples: Access Tuple Items, Update Tuples, Join Tuples, Loop							
	Tuples, Set: Access Set Items, Add Set Items, Remove Set Items, Loop Sets, Join Sets, Copy Sets,							
	Dictionaries: Access Dictionary Items, Change Dictionary Items, Add Dictionary Items, Remove							
	Dictionary Items, Loop Dictionaries, Copy Dictionaries							
4	Python Functions and Handling Exceptions	11						
	Python Functions: The built-in functions, Function Basics, Parameter Passing, Lambda function,							
	Python Exceptions: Standard Exceptions, What Is Exception? Handling An Exception, The Except							
	Clause with Multiple Exceptions, The Try-Finally Clause, Raising An Exception, User-Defined							
	Exceptions							
Text B								
1	Introduction to Programming using Python, Y. Daniel Liang, Pearson Education							
Refere	nce Books:							
1	Head First Programming, A Brain Friendly Guide, Paul Barry & David Griffiths, O'Reilly							
2	Python The Complete Reference, Martin C. Brown, McGraw Hill Education							
Web R	eferences / MOOC / Certification Course:							
1	https://nptel.ac.in/courses/106106145							
2	https://onlinecourses.swayam2.ac.in/cec22_cs20/preview							
3	Certified Entry Level Python Programmer (PCEP)							
4	Certified Associate in Python Programming (PCAP)							
Questi	on Paper Scheme:							
	University Examination Duration:2Hours							
	Note for Examiner:							
	Q-1 Must be common from any topics from the syllabus.							
	Q-2 And onwards must be from specific topics and internal choice or option can be given.							
	Paper Structure:							
	Q-1 Must be from all Unit Any Five out of seven (25 Marks) (CO1, CO2, CO3, CO4)							
	Q-2 Must be from Unit 1: Any Two out of Three (06 Marks) CO1							
	Q-3 Must be from Unit 2: Only one question without any option (05 Marks) CO2							
	Q-4 Must be from Unit 3: Any Two out of Three (08 Marks) CO3							
	Q-5 Must be from Unit 4: Any Two out of Three (06 Marks) CO4							