

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., ELECTRONICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART-III	ELECTIVE GENERIC-2	U23EL2A2	PYTHON PROGRAMMING

Date & Session: 03.05.2025/FN

Time: 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	What is the correct extension of a Python file? a) .pyth b) .pt c) .pyt d) .py
CO1	K2	2.	Write Which of the following statements is correct about Python? a) Python is an interpreted language. b) Python is not case-sensitive. c) Python not supports object-oriented programming d) Python is an complier language
CO2	K1	3.	Identify the correct keyword is used to define a function in Python? a) func b) def c) function d) define
CO2	K2	4.	Show Which data type is immutable in Python? a) List b) Dictionary c) Set d) Tuple
CO3	K1	5.	Which of the following statements is used to terminate a loop in Python? a) stop b) break c) exit d) terminate
CO3	K2	6.	Select Which keyword is used to skip the current iteration in a loop? a) pass b) skip c) continue d) break
CO4	K1	7.	Express correct methods is used to add an element to a list? a) append() b) add() c) push() d) insert()
CO4	K2	8.	Select Which of the following is a mutable data type? a) List b) String c) Tuple d) Indexing
CO5	K1	9.	Which of the following modes is used to open a file for writing only, and creates a new file if it does not exist? a) 'r' b) 'w' c) 'a' d) 'r+'
CO5	K2	10.	Show the correct method is used to read the entire contents of a file as a single string. a) readline() b) readlines() c) read() d) readall()

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	11a.	Write the Key features of Python. (OR)
CO1	K3	11b.	Write a Python program to check whether a number is even or odd?
CO2	K3	12a.	Show Python's built-in data types? Name any four with examples (OR)
CO2	K3	12b.	Prepare the difference between lists and tuples in Python.
CO3	K4	13a.	Compare while and for loops in Python with suitable examples. (OR)
CO3	K4	13b.	Illustrate the purpose of if-elif-else statements in Python? Explain with an example.
CO4	K4	14a.	Simplify a Python program to find the length of a string without using the len () function? (OR)
CO4	K4	14b.	Classify the difference between pop() and remove() methods in a list? Provide examples?
CO5	K5	15a.	Differentiate the file operations modes available in Python? Explain any three. (OR)
CO5	K5	15b.	Predict the purpose of the xlabel(), ylabel(), and title() functions in Pyplot?

Course Outcome	Bloom's K-level	Q. No.	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	16a.	Discover the advantages and disadvantages of Python? (OR)
CO1	K3	16b.	How to installing the Python application?
CO2	K4	17a.	Classify Python keywords? List any five keywords with suitable example. (OR)
CO2	K4	17b.	Examine the concept of python operators and its types with suitable example.
CO3	K4	18a.	Simplify a Python program to find the largest of three numbers using conditional statements. (OR)
CO3	K4	18b.	Analyse the working of for-else and while-else in python with examples?
CO4	K5	19a.	Critically evaluate the key differences between lists and sets with suitable examples? (OR)
CO4	K5	19b.	Evaluate the concept of nested dictionaries in Python with an example program.
CO5	K5	20a.	Discuss the difference between read(), readline(), and readlines() methods in file handling? (OR)
CO5	K5	20b.	How to create line chart, bar Chart and Pie chart in python.