



Atal Bihari Vajpayee Govt Institute of Engineering & Technology

DEPARTMENT OF COMPUTER ENGINEERING

LESSON PLAN (Practical Course)

Program Name	Diploma in Computer Engineering	Academic Year	Jan. - Jun. 2026
Course Title	Scripting Language Lab	Scheme	N - 2022
Course Code	COPC - 304	Semester	6th
Course Type	Program Core	Semester Start Date	27-01-2026
Course Teacher	Rajesh Kumar	Semester End Date	27-05-2026

EVALUATION SCHEME

Study Hours	Internal Assessment Marks	External Assessment		Total Marks	No. of Credits
		Marks	Duration		
P:02, DCS: 02 = 04 Hrs.	40	60	3 Hrs.	100	01

REFERENCE BOOKS / STUDY MATERIAL

1. Computer Science text book for class XI, NCERT.
2. Python Programming Using Problem Solving Approach by Reema Thareja, Oxford University Press.
3. Introduction to Computer Science using Python by Charles Dierbach, Wiley Publishers.
4. Let's Python by Yashavant Kanetkar, BPB publication.
5. The Complete Reference Python by Martin C. Brown, Mc Graw Hill publication.

COURSE OUTCOMES(COs)

On the successful completion of this course, students will be able to:-

CO1	Write and execute simple 'Python' programs.
CO2	Write 'Python' programs using arithmetic expressions and control structure.
CO3	Develop "Python" programs using List, Tuple, Set and Dictionary.
CO4	Develop/Use functions in Python programs for modular programming approach.
CO5	Develop 'Python' programs using File Input/output operations.

EXPERIMENTAL PERFORMANCE PLAN

SN	Practical Name	Group - 1		Group - 2		Remark(s)
		Proposed Date (as per Time Table)	Actual Date	Proposed Date (as per Time Table)	Actual Date	
1	To install, configure Python 3 and IDLE on Windows/ Linux platforms, and to practice various arithmetic expressions, the eval() function on the Python interactive shell.	29/01/2026		28/01/2026		
2	To create variables of various data types, check their id using id() function and to verify their data types using the type() function.	05/02/2026		04/02/2026		

3	To swap values of two variables with and without a third variable. (use input() to accept values from user and print() to display values before and after swapping)	12/02/2026		11/02/2026		
4	To accept two numbers from the user and apply various Python operators on them.	19/02/2026		18/02/2026		
5	To apply concatenation, repetition, membership testing, indexing and slicing on sequences (strings, lists and tuples).	26/02/2026		25/02/2026		
6	To practice various methods and the len() function on string and list.	05/03/2026		09/03/2026		
7	To practice various methods and the len() function on tuple, set and dictionary	12/03/2026		16/03/2026		
8	To calculate the division obtained by a student using the if...elif...else construct as per following rules: Input percentage is above or equal to 60 - First division Input percentage is between 50 and 59 - Second division Input percentage is between 40 and 49 - Third division Input percentage is less than 40 - Fail	19/03/2026		23/03/2026		
9	Using while loop 1. To find whether the number entered by a user is prime or not. 2. To convert a decimal number entered by the user to its binary equivalent. 3. To print all the fibonacci numbers less than 200 separated by a space.	27/03/2026		30/03/2026		

10	<p>Using for loop</p> <p>1. To find the factorial of a given number.</p> <p>2. To print all the even numbers (except 50), between 0 and 100, separated by a TAB, using the range() function and the continue statement.</p> <p>3. To display all the prime numbers less than 100, separated by single space, using the range() function and the break statement.</p>	09/04/2026		06/04/2026		
11	<p>Using a while/for loop</p> <p>1. To traverse a string.</p> <p>2. To traverse a list.</p> <p>3. To traverse a dictionary</p>	16/04/2026		13/04/2026		
12	To demonstrate the exception handling mechanism of Python.	23/04/2026		20/04/2026		
13	<p>To find the sum of two integers using :</p> <p>1. a function that accepts nothing and returns nothing.</p> <p>2. a function that accepts nothing but returns the sum of two integers.</p> <p>3. a function that accepts two integers but returns nothing.</p> <p>4. a function that accepts two integers and returns the sum of two integers.</p>	30/04/2026		27/04/2026		
14	To demonstrate lambda function.	08/05/2026		04/05/2026		
15	To copy the contents of one file into another.	14/05/2026		11/05/2026		

Faculty Signature: 

Faculty Name: Rajesh Kumar

Approved By:

HoD Signature: 

HoD Name: Sandeep Khimta