



# ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)

Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

## Python Programming 18BTCECC602 LAB MANUAL

### 6<sup>th</sup> Semester

### Faculty of Computer Engineering







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**SUBJECT:**  
**Python Programming (SEM-6<sup>th</sup>)**

## CERTIFICATE

This is to certify that Mr./Ms. \_\_\_\_\_ Enrolment No. \_\_\_\_\_  
Branch \_\_\_\_\_ Semester 6<sup>th</sup> Division \_\_\_\_\_ has satisfactorily  
completed his/her term work in the Subject of **Python Programming**  
**(18BTCECC602)** within the four walls of the institute.

Date of Submission: \_\_\_\_\_

\_\_\_\_\_  
Subject – in – Charge

\_\_\_\_\_  
Head of Dept.





**SUBJECT:**  
**Python Programming (SEM-6<sup>th</sup>)**

## INDEX

Sr No.	Name of Experiment	Page No	Date of Submission	Grade	Sign
1	1.1 Write a program to check entered number is even-odd. 1.2 Write a program to check entered number is prime or not. 1.3 Write a program to find maximum and minimum from 3 entered numbers.				
2	2.1 Write a program to find GCD of two numbers. 2.2 Write a program to print sum of first 50 numbers with different loops.				
3	3.1 Write a program to perform searching and sorting in given list. 3.2 Write a program to learn different types of structures (list, dictionary, tuple) in python. Display all information of student.				
4	4.1 Write a program using user define function to print factorial series. 4.2 Write a program using user define function to print fibonacci series.				
5	Write a program to understand working of exception handling and assertions. 5.1 Handle divide by zero exception. 5.2 Handle any user define exception.				
6	6.1 Write a program to demonstrate use of lambda function.				
7	Write following programs using regular expressions: 7.1 All character 7.2 Regular expression for email like. [a-z].[az]@[a-z].domainname ("@" not be repeated and last "." not repeated).				
8	8.1 Write a program which shows different calendar and time function.				
9	9.1 Write a program to demonstrate use of inheritance by using simple example.				



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Sr No.	Name of Experiment	Page No	Date of Submission	Grade	Sign
10	10.1 Plot graph of result of student (Name vs. Percentage, Subject vs. Percentage, Pass vs Fail) using Pyplot.				
11	11.1 Implement classical ciphers using python.				
12	12.1 Write a program to demonstrate file handling. 12.2 Write a program to create a file of random numbers then separate even and odd numbers in separate file.				
13	13.1 Draw graphics Smiley using Turtle.				
14	14.1 Draw traffic signal using tkinter.				
15	15.1 Write a program to create three push buttons using tkinter. Background color of a frame should be changed when different buttons are clicked.				











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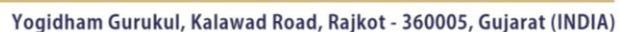








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