



Anjuman — I — Islam's
M.H SABOO SIDDIK COLLEGE OF ENGINEERING
 8, Saboo Siddik Polytechnic Rd., Byculla, Mumbai — 400 008.
Department of Basic Science and Humanity
 Academic Year: 2025-26

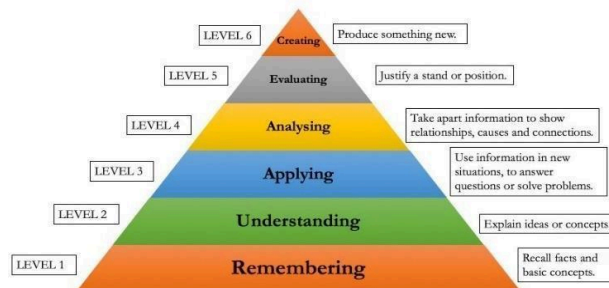
ASSIGNMENT-NO: 01

Our Vision: To be an institute of global repute committed to the cause of nation building through technology based education.

Our Mission: To be enabler of creation and dissemination of futuristic knowledge in technology through research and quality education.

Bloom's Taxonomy Levels:

R - Remember, U - Understand, AP - Apply, AN - Analyze, E - Evaluate, C - Create



Class: FE DIV: A, B, C, D, E, F, G, H

Course Name: C Programming

Semester: I

Course Code: VSEC102

Modules covered:

Module 1: Fundamentals of C-Programming

Module 2: Control Structures

Module 3: Functions and Parameter

Course Outcomes covered:

1. Illustrate the basic terminology used in computer programming.
2. Use different data types in a computer program.
3. Design programs involving decision structures, loops and functions.

Q. No	Questions	Module	CO	BTL	PI
01	Implement a Simple ATM machine simulation using menu driven operation using switch case. 1. Check Balance 2. Deposit 3. Withdrawn 4. Exit Also write an algorithm & Draw a flowchart of it.	1,2	CO2 CO3	3	1.2.1
02	Write a C program to calculate salary of an employee with name. Write an algorithm & draw a flowchart for the same.	1,2	CO1 CO2	3	1.7.1
03	Write a C program to Implement a Number Guessing Game using if – else if. Also write an algorithm & Draw a flowchart of it.	1,2	CO3	3	2.5.2
04	Write a C program to print the following Pyramid: * ** *** ****	1,2	CO3	3	1.6.1

05	Write a C program to print Fibonacci series using recursion .	1,3	CO3	3	2.5.3
06	<p>Write a C program that defines functions to perform the following tasks:</p> <ol style="list-style-type: none"> 1. Create a function to calculate the area of a rectangle. The function should take the length and width as input and return the area. 2. Create a function to calculate the area of a circle. The function should take the radius as input and return the area. (Use the value of pi as 3.14159). 3. Create a function to calculate the area of a triangle. The function should take the base and height as input and return the area. 4. The program should: <ul style="list-style-type: none"> ○ Prompt the user to select which geometric shape's area they would like to calculate. ○ Based on the user's selection, the program should call the appropriate function and display the result. 	1,3	CO3	3	2.5.2

Subject Teacher
(Er. Mohd Ashfaque Shaikh)