



**COURSE NAME : B.Sc (IT),1st Semester  
Subject Name : Programming in C Language**

**Day 1- 9<sup>th</sup> December, 2020**

## **Detailed Schedule**

1.	Programs & programming, programming languages, compiler, interpreter, loader & linker, C program execution.
2.	Guidelines for drawing a flowchart and different symbols like start/end, process, decision and more , Demonstration of flowchart tool for desktop application and mobile application.  Available tools for flowchart. <a href="https://app.diagrams.net/">https://app.diagrams.net/</a> (online) Microsoft Visio/Desktop Application) Flowdia Lite(Mobile Application)
<b>Exercise:-1</b>	Draw a flowchart for calculating the simple interest using the formula $SI = (P * T * R)/100$ , where $P$ denotes the principal amount, $T$ time, and $R$ rate of interest.
<b>Exercise :- 2</b>	Draw a flowchart to find the largest of two numbers A and B
<b>Exercise :- 3</b>	Draw a flowchart to find the smallest of three numbers A , B and C

## Essential Assignment

1.	Draw a flowchart to find area of a rectangle.(Area=l*b)
2.	Draw a flowchart to take three sides of a triangle as input and check whether the triangle can be drawn or not. If possible, classify the triangle as equilateral, Isosceles or scalene.
3.	The XYZ Construction Company plans to give a 5% year-end bonus to each of its employees earning Rs 5,000 or more per year, and a fixed bonus of Rs 250 to all other employees. Draw a flowchart for printing the bonus of any employee.

## Desirable Assignment

1.	Prepare a flowchart to read the marks of a student and classify them into different grades. If the marks secured are greater than or equal to 90, the student is awarded Grade A; if they are greater than or equal to 80 but less than 90, Grade B is awarded; if they are greater than or equal to 65 but less than 80, Grade C is awarded; otherwise Grade D is awarded.
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