Course Number and Name
BCS101 - FUNDAMENTALS OF COMPUTING AND PROGRAMMING

Credits and Contact Hours
3 & 45

Course Coordinator's Name
Ms Fathima

Text Books and References

TEXT BOOKS:
Kindersley (India Pvt Ltd.),Pearson Education in South Asia,(2011).

REFERENCES:
publication.

Course Description
Students will understand the basics of computers and solve computer oriented problems using
various computing tools.

Course Outcomes (COs)
CO1 :Learn the fundamental principles in computing.
CO2 :Learn to write simple programs using computer language
CO3 :To enable the student to learn the major components of a computer system.
CO4 : Computing problems
CO5 :To learn to use office automation tools.
CO6 :To interpret and relate programs

Student Outcomes (SOs) from Criterion 3 covered by this Course

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List of Topics Covered

UNIT I: INTRODUCTION TO COMPUTER
**Introduction**


**UNIT II: PROBLEM SOLVING AND OFFICE AUTOMATION**


**UNIT III: INTRODUCTION TO C**

Overview of C-Constants-Variables-Keywords-Data types-Operators and Expressions. Managing Input and Output statements-Decision making-Branching and Looping statements.

**UNIT IV: ARRAYS AND STRUCTURES**

Overview of C-Constants, Variables and Data types-Operators and Expressions -Managing Input and Output operators-Decision making-Branching and Looping.

**UNIT V: INTRODUCTION TO C++**

Overview of C++ - Applications of C++-Classes and objects-OOPS concepts -Constructor and Destructor- A simple C++ program -Friend classes and Friend Function.