VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURATBachelor of Computer Application (B.C.A) 1st Year

Syllabus (As Per CBCS)

F. Y. B. C. A. Semester 1 Effective From: June-2012

Paper No.: 104

Paper Title: COMPUTER PROGRAMMING & PROGRAMMING

METHODOLOGY

1. Algorithm and Flowchart

2. Programming Languages & Structured Programming

- 2.1. Structured Programming
- 2.2. Concepts of Compiler / Interpreter Editor

3. Constraints & Variables

- 3.1. Character Set
- 3.2. Constants- needs & Definition
- 3.3. Variables- needs & Definition

4. Expression & Operators

- 4.1. Operators
- 4.2. Expression
- 4.3. Evaluation & Assignment of Expression

5. Input & Output Systems

- 6. Jumping, Branching & Looping Statements
- 7. Built-in Functions: Mathematical and String Functions

8. Concepts Of Arrays

- 8.1. One Dimensional Arrays
- 8.2. Sorting using one Dimensional Array
- 8.3. Concept of Two Dimensional Array
- 8.4. Arithmetic operation on two dimensional array

9. Debugging and testing

Reference Books:

- 1. Structured Programming Language La Budde McGraw Hill
- 2. Programming Experience in BASIC-Kanitkar BPB
- 3. Programming With BASIC Gottfried TMH
- 4. Programming in BASIC Balaguruswamy TMH