

**KVR GOVT. COLLEGE FOR WOMEN (A), KURNOOL.**

**Re-Accredited by NAAC with Grade "A"**

**Department of Computer Science & Applications**

**CERTIFICATE COURSE**

**Syllabus**

**PYTHON**

### **MODULE 1**

**Introduction to PYTHON:** History, Basics of PYTHON, similarities and differences between different programming languages, Installation.

### **MODULE 2**

**Basic Concepts:** Interpreter – Program Execution – Statements– Numeric Types – Expressions, Variables, Casting, Operators, Datatypes.

### **MODULE 3**

**Control and Conditional Statements:** Flow Controls – Different types of If statements, Different types of Loops structures, Arrays and classes.

### **MODULE 4**

**Functions and Inheritance:** Functions -Sequences – Strings, Tuples, Lists and – Class Definition – Constructors – Inheritance – Overloading – Text & Binary Files – Reading and Writing.

### **MODULE 5**

**DATA WRANGLING:** Combining and Merging Data Sets – Reshaping and Pivoting – Data Transformation – String Manipulation, Regular Expressions.