# MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO
## DEPARTMENT OF CIVIL ENGINEERING

Name of Teacher:     Dr. Fahad Rehman Abro
Subject & Code:     **Introduction to Computing and Programming**  Course code: **CS146**
Batch:     **23CE**     Year: **1st**     Semester: **1st**
Term Starting Date:     **15-08-2023**     Term Suspension Date: **24-11-2023**

**COURSE LEARNING OUTCOMES:**
Upon successful completion of the course, the student will be able to:

| CLO | Description | Taxonomy Level | PLO |
|---|---|---|---|
| CLO-3 | Capable of effectively USING computer applications to ease civil engineering design processes. | P3 | 3 |

| Sr.# | Topics | CLO's | No: of lectures hrs |
|---|---|---|---|
| 1 | Introduction to computers and its parts. | 3 | 03 |
| 2 | Get familiar with input/output devices. | 3 | 03 |
| 3 | Introduction to various OS and working with DOS and its commands. | 3 | 03 |
| 4 | Working with word, excel and PowerPoint. | 3 | 03 |
| 5 | Working with windows accessories, system tools and internet. | 3 | 03 |
| 6 | Getting familiar with Code::Blocks and Dev Cpp IDE and writing basic C++ programs. | 3 | 03 |
| 7 | Creating variables and working with data types in C++. | 3 | 03 |
| 8 | Working with Operators of C++. | 3 | 03 |
| 9 | Working with Conditional Control Structures-I of C++. | 3 | 03 |
| 10 | Working with Conditional Control Structures-II of C++. | 3 | 03 |
| 11 | Working with Iterative Control Structure of C++. | 3 | 03 |
| 12 | Working with One-Dimensional and Two-Dimensional Arrays in C++. | 3 | 03 |
| 13 | Working with Functions in C++. | 3 | 03 |
| 14 | Working with Structures in C++. | 3 | 03 |
| 15 | Working with Stings in C++. | 3 | 03 |
| 16 | Open Ended Lab | 3 | 03 |
| **Total Lecture Hours** | | | **48** |

Signature of Teacher:                            Dated: 10-10-2023

Remarks of DMRC: **APPROVED**

Signature of Chairman:                         Dated: 20-10-2023