**Military Institute of Science & Technology**

## Mirpur Cantonment, Dhaka

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**Department of Computer Science & Engineering**

### COURSE OUTLINE

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| --- | --- |
| **Subject** | **Instructors:** |
| **Title:** Structured Programming Language  Sessional | Brig Gen Md Zakir Hossain  Lt Col Md Abdur Razzak  Lt Col Md Amir Hossain Mollah  Maj Kazi Atiqul Haque  Lec Md. Saidul Hoque Anik |
| **Code:** CSE - 106 |
| **Credit Hour:** 1.50 |
| **Contact Hour:** 3.00 |
| **Level-1, Term-II** |
|  | |

**1.0 Course Objectives:**

**1.1** Learn basic idea of programming languages.

**1.2** Learn how to program with C.

**1.3** Learn how to think about the problems, their solutions and translating it to programming language.

**2.0 Text Books:**

**2.1** Teach Yourself C, Herbert Schildt, 3rd Edition

**2.2** Programming with C - Schaums Outline Series

**2.3** C Programming Language, Dennis M. Ritchie. 2nd Edition

**2.4** Programming in ANSI C, E BALAGURUSAMY, 3rd Edition

1. **Reference Books:**
   1. C, The Complete Reference, Herbert Schildt, 4th Edition

**4.0 Distribution of Marks:**

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| --- | --- |
| **Description** | Percentage |
| Class Attendance | 10 |
| Class Observation | 10 |
| Quiz/Viva | 10 |
| Class Performance + Project | 20 |
| On line Test | 50 |
| **Total** | 100 |

**5.0 Distribution (Planning) of the Course Contents:**

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| --- | --- | --- | --- |
| **Week** | **Lecture** | **Topic** | **Remarks** |
| 1 | 1-3 | Mathematical problems using printf, scanf |  |
| 2 | 4-6 | Number System, memory allocation |  |
| 3 | 7-9 | Control Structure: “if else”, “else if”, “switch” |  |
| 4 | 10-12 | Control Structure : Problem on Loop- For, Do While |  |
| 5 | 13-15 | Problem on Nested Loop |  |
| 6 | 16-18 | Function, parameter passing convention |  |
| 7 | 19-21 | **Online-1** |  |
| 8 | 22-24 | Problem on Recursion |  |
| 9 | 25-27 | Problem on Pointer, Array, String |  |
| 10 | 28-30 | Problem on Multidimensional Array, Dynamic Memory Allocation |  |
| 11 | 31-33 | Problem on File IO, Problem on Structure, Union |  |
| 12 | 34-36 | Problem on Bitwise Operation |  |
| 13 | 37-39 | **Online-2** |  |
| 14 | 40-42 | **Quiz/Viva + Project** |  |

**Signature of the Senior Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**