



# Matrusri Engineering College

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## Department of Computer Science & Engineering

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## ASSIGNMENT -1

**Subject: Statistical Analysis and Computing using Python (ES301CSU23)**

**SECTION: III CSE-D**

**Answer any 4 questions from unit-1 and any 4 questions from unit-2**

**Submission Date: 25-10-2025**

### **Unit-1**

1. Explain different types of Operators available in Python with examples(co1).
2. Explain various Type conversions available in Python with examples(co1).
3. Write a program to read the marks of six subjects and display the total, percentage of marks and the pass grade of them(co1).
4. Briefly explain the control flow statements available in Python(co1).
5. Discuss the need of try-except-finally blocks in python programs(co1).
6. Discuss about various types pf datatypes in python with example program(co1).

### **Unit-2**

1. Define Function? Explain various types of parameters allowed in python functions?(co2)
2. Explain the built-in functions with examples in Python(co2).
3. Write a python program to count the number of vowels, consonants, capital letters, small letters, words and number of lines in the given string which has few lines? (co2)
4. Define a List in python and its features? Explain basic List operations with examples? (co2)
5. Write a program that reads 10 random integers into a list. Then create two lists by name odd\_list and even\_list that have all odd and even values of the list respectively(co2)
6. Explain about String slicing and indexing in python with example program(co2)