**MANAV RACHNA UNIVERSITY**

**Department of CST**

**(CSH207B-T & P – Software Engineering)**

**(Tutorial 8)**

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| Course Outcome | Bloom’s Taxonomy | Program Outcome |
| CO4 | BT3 | PO1,2,3,5,11, PSO1,2 |

**Learning Outcome: Students will be able to understand the concepts of software metrics.**

Q1. Define a Software metric.

Q2. Explain the difference between a measure, measurement and a metric with the help of an example.

Q3. What are the 3 different categories of Software Metrics? Explain each and name at least 3 software metrics in each category.

Q4. Create a Use Case diagram for the software system with the following description:

A university conducts a 4 semester M.Tech. programme. The students are offered 4 theory subjects and 2 lab subjects during each of 1st, 2nd and 3rd semesters. The theory subjects offered in these semesters are categorized as either core or elective. Core subjects do not have any alternative subjects. A student can select any subject out of the choices available for an elective subject.

In 1st, 2nd and 3rd semesters, 2 core subjects and 2 elective subjects are offered to each student. The student also submits a term minor project in the 2nd and 3rd semester each. In the 4th semester, students have to give a seminar and submit a dissertation on a topic area of their interest.

The evaluation of each subject is done out of 100 marks. Students are required to submit assignments and maintain lab records for practicals. Based on the student performance in minor exams, lab records, assignments and their attendance, marks out of 40 are given in each theory subject and practical subject. These 40 marks are for internal evaluation. At the end of each semester, major exams are conducted in each subject, which are evaluated out of 60 marks.