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M.Tech.(IT)E1 (2015 & Onwards)/(CSE Engg.)EL-I (2015 to 2017)  
(Sem.-2)

**SOFTWARE METRICS**

Subject Code : MTCS-203

M.Code : 72887

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. Write about the kinds of information needed to understand and control a software development project from developer perspectives.
2. Write a detailed note on the five most important measurement scale types.
3. a. What are the types of investigation? State the four principles of investigation.  
b. Discuss Reliability models.
4. a. Define various methods of collecting software measurement data.  
b. With an example explain various fields of failure report in detail.
5. What are the different aspects of software quality? Highlight the importance of operational environment.
6. Write a detailed note on component-based metrics.
7. What are the characteristics of object-oriented metrics? Explain the Lorenze-Kidd metrics suite in detail.
8. Define the following :
  - a. Dynamic coupling
  - b. Statistical analysis of software measurement data
  - c. Cost and effort estimation
  - d. Predictive accuracy

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**