



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35

**Accredited by NBA-AICTE and Accredited by NAAC – UGC with A+ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai**

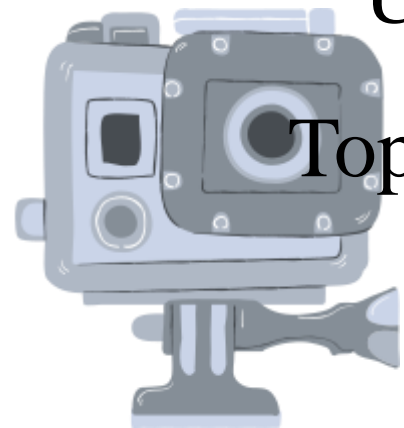
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**COURSE NAME: 19EET205/ MEASUREMENTS AND
INSTRUMENTATION**

II YEAR / IV SEMESTER

Unit 1 –MEASUREMENT OF VOLTAGE AND CURRENT

Topic 4: FUNCTIONAL ELEMENTS OF MEASURING SYSTEM

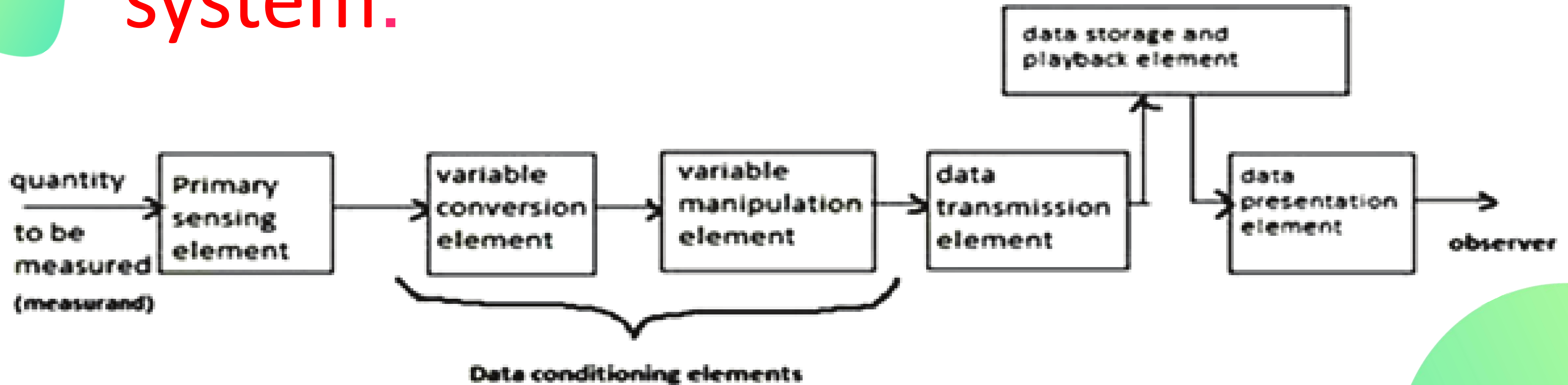


19EET205/M&I/Mrs.B.CHRISTYJULIET/ AP/EEE





Functional Elements of Measuring system:





Functional Elements of Measuring system:

- Primary sensing element.
- Variable conversion element.
- Data presentation element.
- **PRIMARY SENSING ELEMENT:** The quantity under measurement makes its first contact with the primary sensing element of a measurement system.
- **VARIABLE CONVERSION ELEMENT:** It converts the output of the primary sensing element into suitable form to preserve the information content of the original signal.



Functional Elements of Measuring system



- Primary sensing element.
- Variable conversion element.
- Data presentation element.



Contd..

- **PRIMARY SENSING ELEMENT:**

The quantity under measurement makes its first contact with the primary sensing element of a measurement system.

- **VARIABLE CONVERSION ELEMENT:**

It converts the output of the primary sensing element into suitable form to preserve the information content of the original signal.

- **DATA PRESENTATION ELEMENT:**

The information about the quantity under measurement has to be conveyed to the personnel handling the instrument or the system for monitoring, control or analysis purpose.



*Thank
You!*

19EET205/M&I/Mrs.B.CHRISTYJULIET/ AP/EEE

06/06