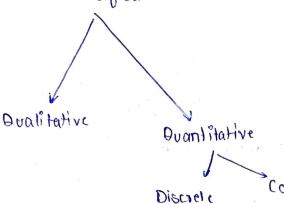
Methodology

By Dr. Suman Deb

· Data can be defined as a collection of values or set of values. When we process the data and add meaning to ut, it becomes information, eng. 2000s119 is data

Enrollment no 20008119 is information. · Data can be classified



But, why do we need to do this? Because it provides a mental mapping for the data.

Meed of Data Structures:

* Data Structures organize data -> more efficient programs

Data Structure is an efficient way of organizing data so that it can be used effectively.

· Any organization of data should be abled to be modified, searched or processord in any order.

Costs / Renefits:

as

Data Structure requires a certain amount of:

- · space, for each data item it stores.
 · time, to perform basic operation
- · brodramming effort

Selecting a Data Structure:

- 1. Analyze problem to determine the resource constraints a solution must meet.
- Determine the basic operations that must be supported. Quantify resource constraint for each problem.
- 3. Select the data Structure that best meets these requirements

Mote: All queries and Notes will be managed through Piazza.

All meeting will be done by Microsoft Teams. Test are

going to be critical.

1st 8 Classes, Only Cprogramming. (1 Menth)