**Software Engineering**

1. **Introduction**

**Engineering:** It is application of science, tools and methods to find cost effective solution to problem.

**Software Engineering:** It is defined as systematic disciplined & quantifiable approach for the development operation & maintenance as software.

**Common Tams:**

1. Variable: Its refers to specific location in computer memory to store one value in one particular location.
2. Datatype: It is a set of variable takes its value
3. Statement: It is just line of code

**Properties:**

1. Input: Algorithm use value form a specific set.
2. Output: Each input for the algorithm produces values forms a specific task
3. Precision:
4. Correctness:
5. Fitness:

**Characteristics:**

* Software is developed or engineered it is not manufactured
* Software does not ware out
* Software is custom built

**Software Crisis:** It is a tam use in yearly day of computer science for the difficulty to writing useful & efficient program in required time.

**Causes of Software Crisis:**

* Project running over budget
* Project running over time
* Software was very in efficient
* Software was of low quality
* Software often did not meet requirements