## WEEK-1

## SOFTWARE ENGILNEERINGS

Software engineering is an engineering discipline that is concerned with all aspects of softroare production.

There are two key phorases:

Engineering discipline engineers apply
theories, methods and tools where there are
appropriate. However, they use them selectively
and always try to discover solutions to problems

All aspects of sho production she engineering is not just concerned with the technical processes of she development. It also includes activities such as she paroject management and the development of tools, methods and theories to support she production.

Need of Software Engineering

1. Changes in requirement - with frequent changes

in the business suquiscements and the.
envisionment, a poroperly documented and well
defined system of 8/w development is suquissed
which makes it eminent to use 8/w
engineering.

2. Large and complex software - with large and with large and complex slw, it becomes difficult to heardle the slw product that with the concept of slw comparatively engineering, it is easier to build and manage them.

3. Scalability gf the software process were to be not based on scientific and engineering concepts, it based on scientific and engineering concepts, it would be easier to secreate new sport than to would be easier to secreate new sport than to scale an existing one.

4. Cost of computer and electronic hardware. But the cost of computer and electronic hardware of programming remains high if the proper cost of programming remains high if the proper

5. Quality management-Better procedure of 81 w development provides a better and quality slw product.

6. More and more, individuals and society onely on advanced software systems. We need to be able advanced software and trustworthy systems to produce reliable and trustworthy systems economically and quickly.