## Practical software quality measures, product versus process quality management

## Introduction to Practical software quality measures

- Each project needs to devise its own measures to meet its specific need
- The measures described relate to the final software products of a project


# Practical software quality measures(Cont..) 

## Reliability

- Availbility
- M ean time between failures
- Failure on demands
- Support activity


## Practical software quality measures(Cont..)

M aintainability

- A key component of this is changeability which relates to the ease with which software can be modified
- M aintainability is changeability plus new quality, analysability


## Practical software quality measures(Cont..)

## Extendibility

- it has two aspects one is ease with which existing code can be changed while another could be the ease with which new functionality can be added


## product versus process quality management

- The system development process is made up of a number of activities that are linked together so that the output from one activity is the input to the next
- Thus program testing will depend on there being a program to test which will be the deliverable from the program coding stage


## product versus process quality management

- Error can enter the process at any stage.
- They can either be introduced because of a defect in the way a process is carried out, as when the software developers makemistakes in the logic of their software


## product versus process quality management

- Error that creep in the early stages are more expensive to correct at later stages for the following reasons
- The later the error is found , the more rework at more stages of development will be needed
- The general tendency is for each successive stage of development to be more detailed and less capable to absorb change.


## product versus process quality management

- Following process requirements should be specified
- Entry requirement
- Implementation requirement
- Exit requirement

