

# Software Project Management

# Lecture 29

ISO 9126

# Topics Covered

- External Standards
- Techniques to help enhance Software quality
- Study of any Software project management software

# Techniques to help enhance software quality

- Three main themes emerge
- Increasing visibility
- Procedure structure
- Checking intermediate stages

# Techniques to help enhance software quality

## Inspections

- Techniques has been
- It is very effective way of removing superficial errors
- It motivates developers to produce better structured and self explanatory software
- It helps spread good programming practice
- It enhance team spirits

# Techniques to help enhance software quality

The general principles behind fagan method

- Inspection are carried out on all major deliverables
- All types of defects are noted
- Inspection can be carried out by colleagues at all levels except the very top
- Inspection can be carried using a predefined set of steps

# Techniques to help enhance software quality

Structured programming and clean room software development

- With this type of development there are three separate teams
- A specification team
- A development team
- a certification team

# Techniques to help enhance software quality

## Formal methods

- Precondition
- Post condition



# Techniques to help enhance software quality

## Software quality circle

- Staff are involved in the identification of sources of errors through the formation of quality circle. These can be set up in all departments of an organizations including those producing software where they are known as software quality circle(SWQC)

## Study of any software project management software : viz Project 2000 or equivalent

- **Microsoft Project** is a project management software program, developed and sold by Microsoft, which is designed to assist a project manager in developing a plan, assigning resources to tasks, tracking progress, managing the budget, and analysing workloads.
- Microsoft Project was the company's third Microsoft Windows-based application, and within a couple of years of its introduction it became the dominant PC-based project management software.
- . Microsoft Project's proprietary file format is *.mpp*.
- Microsoft Project and Microsoft Project Server are the cornerstones of the Microsoft Office enterprise project management (EPM) product.

# Application & Scope of research

## Application

- PRINCE2

## Scope of research

- Development of new software quality

# Techniques to help enhance software quality

Q.1) Write a short note on Techniques to help enhance software quality

Q2) Discuss External standards