CHOOSING TECHNOLOGIES

Choosing Technologies

- An outcome of project analysis will be the selection of the most appropriate methodologies and technologies.
- The chosen technology will affect:-
- 1. The training requirements for development staff
- The types of staff to be recruited
- The development environment both hardware and software
- 4. System maintenance arrangements

Steps of project analysis

- Identify project as either objectives-driven or product-driven.
- Analyse other project characteristics
- 1. Is a data-oriented system to be implemented?
- Will the software that is to be produced be a general tool or application specific?
- 3. Are there specific tools available for implementing the particular type of application?
- 4. Is the system to be created safety critical?
- 5. Is the system designed primarily to carry out predefined services or to be engaging and entertaining?
- 6. What is the nature of the hardware/software environment in which the system will operate

Steps of project analysis Cont'd

- Identify high-level project risks
- 1. The greater the uncertainties at the beginning, the greater the risk that the project will be unsuccessful.
- 2. Uncertainties can be associated with the products, processes or resources of a project.
- 3. Product uncertainties How well the requirements are understood?
- 4. Process uncertainties The project under the consideration might be the first where an organization is using an approach like extreme programming or a new application-building tool.
- 5. Resource uncertainties the availability of staff of the right ability and experience.

Steps of project analysis Cont'd

- Take into account the user requirements concerning implementation.
- Select general life-cycle approach
- 1. Control systems
- 2. Information systems
- 3. General tools
- 4. Specialized techniques
- 5. Hardware environment
- 6. Safety-critical systems
- 7. Imprecise requirements