

LECTURE:-2

- Engineering management.

- Engineering management is a specialized form of management that deals with the engineering people and projects.

- Engineering manager:

- Engineering manager who creates and maintains an engineering environment in which different individuals working together in the form of group efficiently achieved the desired objectives.
- Problems faced by engineering manager:
- Mostly engineers are shifted in management rather than adopting it as a career.
- They are usually at the peak of their creativity and engineering activity when they are promoted into management position as a reward of good work.
- They are supposed to leave a career in which they have lot of experience to a career in which they have no experience.
- Thus good engineers not necessarily be good managers unless they develop certain skills in their personality.

- Required skills of an engineer manager:-

- Technical skills:

It is the specialized knowledge of methods and techniques and procedures of any particular field.

- Human/people skills:

It is the ability to deal and work with different people.

- Conceptual skills:

Ability to see big picture.

Ability to understand different elements of big picture.

Ability to understand relationship between these elements.

- Design skills:

Ability to design, develop and implement workable solution of a problem.

- Responsibilities of an engineering manager:-

- They are responsible to the stake holders of an organization.

- They provide good working conditions within the organization.
- To make products and services available to customer at right price and time
- To maintain excellent relationship between organizations and suppliers.

- **Concepts:-**

- Just-in-time:

It is the receiving of the components only when they are needed in the production process to reduce inventory cost. It replaces the older concept just-in-case, where manufacturers used to maintain larger stocks just-in-case larger demands had to meet. However, it increases the risk of disruption.