

CN5010 RESOURCE MANAGEMENT AND CONTROL IN CONSTRUCTION

DETAILED SYLLABUS

OBJECTIVES

- To study the management and control of various resources involved in construction.
- To study the effect of resource planning, labour management, material and equipment, time management, and resource allocation and resource levelling in construction.

UNIT I RESOURCE PLANNING

Resource Planning, Procurement, Identification, Personnel, Planning for material, Labour, time schedule and cost control, Types of resources, manpower, Equipment, Material, Money, Time.

UNIT II LABOUR MANAGEMENT

Systems approach, Characteristics of resources, Utilization, measurement of actual resources required, Tools for measurement of resources, Labour, Classes of Labour, Cost of Labour, Labour schedule, optimum use Labour.

UNIT III MATERIALS AND EQUIPMENT

Material: Time of purchase, quantity of material, sources, Transportation, Delivery and Distribution. Equipment: Planning and selecting by optimistic choice with respect to cost, Time, Source and handling.

UNIT IV TIME MANAGEMENT

Personnel time, Management and planning, managing time on the project, forecasting the future, Critical path measuring the changes and their effects – Cash flow and cost control.

UNIT V RESOURCE ALLOCATION AND LEVELLING

Time-cost trade off, Computer application – Resource levelling, resource list, resource allocation, Resource loading, Cumulative cost – Value Management.

REFERENCES

1. Andrew,D., Szilagg, Hand Book of Engineering Management, 1982.
2. Harvey, A., Levine, Project Management using Micro Computers, Osborne -McGraw Hill C.A.Publishing Co., Inc. 1988.

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Notes

Syllabus

Question Papers

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www.AllAbtEngg.com

3. James.A., Adrain, Quantitative Methods in Construction Management, American Elsevier Publishing Co., Inc., 1973.
4. Oxley Rand Poslcit, Management Techniques applied to the Construction Industry, Granda Publishing Ltd., 1980.