

CONSTRUCTION EQUIPMENT MANAGEMENT

UNIT- I

CONSTRUCTION EQUIPMENT MANAGEMENT -Identification – Planning - Equipment Management in Projects - Maintenance Management – Replacement - Cost Control of Equipment - Depreciation Analysis – Safety Management

EQUIPMENT FOR EARTHWORK - Fundamentals of Earth Work Operations - Earth Moving Operations - Types of Earth .Work Equipment - Tractors, Motor Graders, Scrapers, Front end Waders, Earth Movers.

UNIT-2

OTHER CONSTRUCTION EQUIPMENTS -Equipment for Dredging, Trenching, Tunneling, Drilling, Blasting - Equipment for Compaction - Erection Equipment - Types of pumps used in Construction - Equipment for Dewatering and Grouting – Foundation and Pile Driving Equipment –Equipment for Demolition.

UNIT-3

MATERIALS HANDLING EQUIPMENT -Forklifts and related equipment - Portable Material Bins – Conveyors - Hauling Equipment

EQUIPMENT FOR PRODUCTION OF AGGREGATE AND CONCRETING -Crushers – Feeders - Screening Equipment - Handling Equipment - Batching and Mixing Equipment - Hauling, Pouring and Pumping Equipment – Transporters.

REFERENCES:

1. Peurifoy, R.L., Ledbetter, W.B. and Schexnayder, C., Construction Planning, Equipment and Methods, McGraw Hill, Singapore, 2006.
2. Sharma S.C. Construction Equipment and Management, Khanna Publishers, New Delhi, 1988.
3. Deodhar, S.V. Construction Equipment and Job Planning, Khanna Publishers, New Delhi, 1988.
4. Dr.Mahesh Varma, Construction Equipment and its planning and Application, Metropolitan Book Company, New Delhi. 1983.