

FOURTH YEAR - SEMESTER – VIII

AC 804 ADVANCED CONST. TECH. AND MANAGEMENT (L=3,S=0,W=0) CREDITS =03

INTERNAL ASSESSMENT(TERM WORK) = 50
UNIVERSITY EXAMINATION = 50

CONTACT HRS/WK =03

A. CONSTRUCTION TECHNOLOGY- SECTION – I

Focus: Understanding construction of complicated buildings and structures.

Contents: Geodesic forms. Shell structures.
Long span structures / Light weight structures - space frame,
Cable/ catenary structure
Construction of High Rise Buildings
Intelligent Buildings and automation systems
Building Engineering and system design
Passive buildings
Life safety concerns
Fire protection

B. PROJECT MANAGEMENT -SECTION – II

Focus: Techniques for planning and implementation of construction projects.

Contents: Nature of construction projects, need for proper planning and Management Processes and Equipment used.
Techniques for scheduling : bar charts, Network diagram, project Evaluation and Review Techniques, Critical path Method.
Practical implementation and application of PERT and CPM to typical construction projects.

Maintenance of records, bills and method of making payments.

Method : Lecture based with series of exercises on various management techniques.

REFERENCES:

SR. NO.	TITLE	AUTHOR
1.	Total Project Management	P.K. Joy
2.	Project Management, TPM, PERT & Precedency Programming	J.J. Moder
3.	PERT & CPM-Principles and Application	L.F. Srinath
4.	Management Guide to PERT & CPM	Weist & Len