

OSSC JE Syllabus 2024

OSSC JE Civil Engineering Materials Syllabus

Topics	
Stone, Bricks	Clay Products And Refractory Materials
Cement	Sand
Gravel	Morrum And Fly Ash
Mortar And Concrete	Timber
Paint	Varnish And Distemper
Iron And Steel	Bituminous Materials
Plastics	Heat Proofing And Acoustic Materials.

OSSC JE Construction Technology Syllabus

Topics	
Introduction To Construction Technology	Site Investigation
Foundations	Walls
Damp Proofing	Arches And Lintels
Doors And Windows	Floors
Roofs	Stairs
Surface Finishes	General Idea Of Seismic Planning
Design Of Building	Construction Machineries
Trusses And Frames	Slope And Deflection
Fixed Beam	Continuous Beam
Slope Deflection Method	Three Hinged Arches.
Moment Distribution Method	

OSSC JE Transportation Engineering Syllabus

Topics	
Introduction To Transportation Engineering	Road Geometric
Road Materials	Road Pavements
Hill Roads	Road Drainage
Road Maintenance	Construction Equipments
Traffic Studies	Introduction To Railways Transportation
Landscaping And Arboriculture	Track Materials
Permanent Way	Geometric For Broad Gauge
Points And Crossings	Laying And Maintenance Of Track
Introduction To Bridges	Bridge Site Investigation
Hydrology And Planning	Bridge Foundation
Bridge Substructure And Approaches	Permanent Bridges
Culvert And Causeway	Introduction To Docks And Harbors
Break Waters Docks	Introduction To Airport Engineering
Components Of An Airport	Tunnel Engineering.

OSSC JE Irrigation Engineering Syllabus

Topics	
Introduction To Irrigation Engineering	Hydrology
Water Logging And Drainage	Ground Water Hydrology.
Flow Irrigation	Dams
Regulatory Works	Diversion Head Works
Cross Drainage Works	Water Requirement Of Crops
Administrative Setups Of Engineering Organizations	Detailed Estimate Of Building As Per Pwd Specifications And Standards
Analysis Of Rates	Detailed Estimate Of Culverts And Bridges
Estimate Of Irrigation Structures	Introduction To Estimating

Detailed Estimate Of Roads	Pwd Accounts Works.
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OSSC JE Structural Design Syllabus

Topics	
Introduction To Design And Detailing	Working Stress Method Of Design
Limit State Method (Lsm) Of Design	Limit State Of Collapse Of Singly Reinforced Members In Bending
Limit State Of Collapse In Shear	Bond Anchorage
Development Lengths And Slicing (Lsm)	Beams (Lsm) Two Way Slabs (Lsm)
Axially Loaded Short Columns (Lsm)	Ductile Detailing Of Reinforced Concrete Structures
Design Of Steel	Design Of Timber Structures (Limit State)
Structural Steel Fasteners And Connections	Design Of Tension Members
Design Of Column Bases And Foundations	Design Of Compression Members
Design Of Timber Structures	Design Of Steel Beams
Stair Case (Rcc-lsm)	Design Of Footings (Rcc-lsm)

OSSC JE Public Health Engineering Syllabus

Topics	
Introduction To Water Supply Engineering	Introduction To Sanitary Engineering
Quantity Of Water	Sources Of Water
Conveyance Of Water Quality Of Water And Treatment Of Water	Distribution System
Water Supply Plumbing In Building	Appurtenance In Distribution System
Quantity Of Sewage	Sewage Treatment
Sewer Appurtenance	Sewerage System
Sewage Disposal	Sewage Characteristics

Sanitary Plumbing For Building And Rural Water Supply Sanitation	
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OSSC JE Construction Management Syllabus

Topics	
Introduction To Construction Management	Construction Planning
Materials Management	Site Management
Construction Organization	Labor Management
Equipment Management	Quality Control
Monitoring Progress in Construction Works	Safety Management in Construction Works

OSSC JE Advanced Construction Technology Syllabus

Topics	
Concrete Mixed Design	Handling And Transporting Of Concrete
Earthquake Resistant Construction	Building Services
Construction And Earth Moving Equipment.	

OSSC JE Mechanical Syllabus

Topics	
Theory of Machines	Differential Equations
Metal Casting	Vector Calculus
Operations	Joining Processes
Operations Research	Calculus
Engineering Mechanics	Tool Engineering
Turbomachinery	The Strength of Materials
Refrigeration and air-conditioning	The design of Machine Elements
Fluid Mechanics	Engineering Materials
Forming Processes	Thermodynamics

