

UPSSSC JE Syllabus 2024

UPSSSC JE Syllabus for Hindi

Topics	
विलोम शब्द	उपसर्ग
तत्सम-तद्भव	प्रत्यय
पर्यायवाची शब्द	अव्यय
एकार्थक शब्द	संधि
अनेकार्थी शब्द	अलंकार
रस	

UPSSSC JE Syllabus for Computer

Topics	
Computer peripheral device	Operating System
Number System	Languages
Memory	MS Office
Internet	MS Word
Modem	MS Excel
E-Mail	

UPSSSC JE Syllabus for General English

Topics	
Antonyms	Spotting errors
Direct and Indirect Speech	Idioms and phrases
Active and Passive voice	Double Synonyms

Sentence improvement	Synonyms
Theme detection	Reconstruction of sentences
Vocabulary test	

UPSSSC JE Syllabus for General Knowledge

Topics	
Science Technology	History
Important Event	Geography
Sports	

UPSSSC JE Syllabus for Civil Engineering

Topics	
Building Materials	Surface Water Drainage
Estimating	Air Pollution- Causes, Effects, Control
Costing and Evaluation	Types of Beams – Determinate and Indeterminate
Surveying	Dams and Retaining Walls
Soil Mechanics	Slope Deflection Simply Supported and Cantilever Beams
Hydraulics Transportation Engineering	Concrete Technology
Environmental Engineering	Properties and Uses of Concrete
Standard Tests	Importance of Water Quality
Uses and Manufacture/Queering of Materials	Water Cement Ratio, Storage, Batching, Mixing, Repair and Maintenance of Concrete Structure
Estimating Analysis of Rates	RCC Beam Fractural Strength

Method and of Unit of Measurement	Shear Strength
Earth Work, Brick Work, (Modular and Traditional Bricks)	Bond Strength
RCC Work	T Beams
Timber Work	Oneway and Isolated Foot Slabsings
Painting	Oneway and Twoway
Shuttering	Reinforced brickworkS
Value and Cast	Columns, Stair Cases, Retaining Wall, Water Tank (RCC Design questions based on limit stress and working stress method, Steel Design and Construction of Steel Column, Beam Roof Tuseplate and Grids)
Scape Value	Fluid properties
Salvage Value	Measurement Of Flow
Method of Evaluation	Flow In Open Channel
Tubewell	Pumps And Turbine
Isolates and Combined Footings	Highway Engineering
Piles and Piles Caps, Simpson's Rule	Traffic Engineering
Centerline Method, Mid Section Formula	Sweepers
Principal of Surveying Measurement of Distance	Highway Drainage
Working of Prismatic Compass	Railway Engineering
Plane Table Surveying	Track Geometric
Theodolite Traversing	Quality Of Water,
Labelling	Need Of Sanitation

Method of Counting	Sewage System
Temporary and Permanent Adjustment of Dumpy Level	Origin of Soil Phase Diagram
Earthwork Calculation	Definition Wide Ratio, Water Content, ISI Soil Classification, Effective Stress
Surveying Equipment	Consolidation of Soil
Active passive earth pressure	

UPSSSC JE Syllabus for Mechanical Engineering

Topics	
Theory of Machines and Machine Design	Definition of Sink
Concept of Simple Machine	Source Reservoir of Heat
Four Bar Linkage and Link Motion	Head Engine
Flywheels and Flexion of Energy	Head Pump and Refrigerator
Power Transmission by Belts – V Belts and Flat Belts	Air Standard Cycles for IC Engine
Clutches – Plate and Conical Gears	Diesel Cycle
Type of Gears, Gear Profile and gear ratio calculation	IC Engine Performance, Rankine Cycle Efficiency with and without Pump Work, Boilers Classification
Governor's Principal and Clarification	Specification

Engineering Machine and Strength of Materials	Fittings and Accessories
Riveted Joint	Air Compressors and their Cycles
Cams, Bearings	Principal of Refrigeration Plant
Equilibrium of Forces	Nozzle and Fluid Machine And machinery
Law of Motion, Fiction	Fluid statics
Concept Stress and Strain	Measurement of fluid pressure
Elastic Limit and Elastic Constant	Hydraulic turbines, centrifugal pumps, clarification, principal, performance.
Bending Momentum Positive and Shear Force Diameter Bars	Process Wet and Superheated States, Definition to of Dryness Function of Steam Degree of Superheat of Steam
Torsion Of Circular Shaft	First of Law of Thermodynamics
Thin Walled Pressure Vessels	Condition for Steady Steady Flow
Properties Of Pure Substance	Steady Steady Flow Energy Equation
Introduction of Steam Table with respect to Steam Generation	Second Law of Thermodynamics

UPSSSC JE Syllabus for Electrical Engineering

Topics	
Basic Concepts	Generation of 3 Phase E.M.F. Armature Reaction
Circuit Law	Voltage Regulation
Magnetic Circuit	Parallel Operation of 2 Alternators, Stationation of Lighting Schemes, Electrical Installation of Machine and Relevant IE Rules

AC Fundamentals, Measurement and Measuring Instruments	Earthing Practices and IE Rules
Electrical Machines,	Type of Power Stations
Fractional KW Motors and Single Phase Induction Motors	Lot Factors
Generation	Diversity Factor
Transmission and Distribution	Demand Factor Cost of Generation Interconnection of Power Station Power Factor Improvement
Estimation and Costing	Cable-Different Types of Cable
Utilization and Electrical Energy	Cable Rating and Derating Factor
Concepts of Resistance	Variable Type of Tariff Types of Faults
Inductance	Short circuit
Capacitance	Switchgears-Rating of circuits breakers
Variable Factors	Protection against earth leakage/over current
Concepts of Current	The efficiency of different systems
Voltage	Use of CRO
Power	Signal Generator
Energy	Earth Fault Detection
Simple Circuit Solution	DC Machine Construction
Difference Kinds of Magnetic Materials	Basic Principle of DC Motors and Brake Generators,
Concept of Flux,	Method
MMF	Transformer Construction

Magnetic Calculation for Conductors of Different Configuration	Principal Of Operation
Electromagnetic Induction	Voltage Regulation
Self and Mutual Induction	Auto Transformers
Polyphase System	Effect of Voltage and Frequency Variation on Speeds
Star and Delta Connection	Characteristics and Applications of Fractional KW Motors and Single Phase Induction Motors
Three phase Value of Power	Ammeter and Voltmeter Both Moving Coil and Moving Iron
Average alternating wave	Actuation of Range Wattmeter
Measurement of power (1 phase and 3 phase both active and reactive) and energy.	Multimeters
Measurement of Frequency and Phase Angle	