KPTCL Lineman Syllabus 2024 (Expected)

The Karnataka Power Transmission Corporation Limited (KPTCL) will release the KPTCL Syllabus and Exam Pattern along with the official notice. The KPTCL Syllabus comprises subjects like aptitude and general awareness, which are required for all positions, as well as discipline-specific subjects for the posts of Junior Engineer (Civil), Junior Engineer (Electrical), and Assistant Engineer (Civil). Candidates must prepare for the KPTCL exam according to the syllabus provided. The entire syllabus for the Written Examination is provided below.

Subject	Syllabus Topic
General Awareness	Indian Economy
	Science & Technology
	Karnataka GK such as polity, geography
	Indian History and culture
	Current Events – National & International
	Indian Polity
	Indian Constitution
	Indian Geography
	IT & Space
Aptitude	Fractions
	Simple Interest & Compound Interest
	Time & Distance
	Decimals
	Number System

	HCF & LCM
	Percentage
	Ratio & Proportion
	Partnership
	Profit & Loss
	Average
General Knowledge	Industries
	Rural and Urban Administrative Structure
	Administrative Structure
	Geography Games and Sports
	Energy Resources
	Natural Resources
General English	Error Correction
	English Grammar
	Construction of Paragraphs
	Tenses
	Antonyms
	Reading Comprehension
	Idioms & Phrases

	Verb
	Sentence Rearrangement
Kannada Language	Kannada Literature
	Antonyms
	History Of Kannada Language
	Articles
	Grammar
	Adjectives
	Tenses
	Prepositions
	Modal auxiliaries
	Vocabulary
	Active and passive voice
	Adjectives
	Error Correction
	Conjunctions
Computer Literacy (Only For Junior Assistant Post)	MS Office Word
	MS Access or DataBase Basic Concepts
	Outlook Express or email handlings

	Emails
	Basic Computers Skills
	Application packages

KPTCL Lineman Syllabus for Technical/ Respective Discipline Subject (Expected)

Name of the Post	Subject	Syllabus
Assistant Engineer (Civil), Junior Engineer (Electrical)	Electrical	Transmission and Distribution
		Linear ICs and Applications
		Computer Control of Electrical Drives
		Industrial Drives and Applications
		Control Theory
		Network-Analysis
		Electrical and Electronic Measurements and Instrumentation
		Logic Design
		Digital System Design with VHDL
		Artificial Neural Networks
		Computer Techniques in Power System Analysis
		High Voltage Engineering

		Electrical Power Utilization
		Signals and Systems
		DC Machines and Synchronous Machines
		Switchgear and Protection
		Power System Analysis and Stability
		Power System Planning
		Engineering Physics and Chemistry
		Mathematics related to Engg.
		Introduction to Computer Programming
		Electronic Circuits
		Basic Electronics
		Electric Power Generation
		Computer-Aided Electrical Drawing
		Digital Signal Processing
	Electronics	Basic Electronics
		Electrical and Electronic Measurements and Instrumentation
		Electronic Circuits
		Network Analysis

		Power Electronics
		Logic Design
		Engineering Mathematics, Physics, and Chemistry
		Information and Network Security
		Electrical Power Utilization
		Field Theory
		Transformers and Induction Machines
		Introduction to Computer Programming
		Signals and Systems
		Microcontrollers
		Artificial Neural Networks
		Control Systems
		VLSI Circuits and Design
		Computer Control of Electrical Drives
Junior Engineer (Civil)	Civil Engineering	Engineering Mathematics
		Basic Geotechnical Engineering
		Advanced Surveying

		Design of RC Structural Elements
		Analysis of Indeterminate Structures
		Computer-Aided Building Planning and Drawing
		Concrete and Highway Materials Laboratory
		Strength of Materials
		Fluid Mechanics
		Basic Surveying
		Engineering Geology
		Building Materials and Construction
		Building Materials Testing Laboratory
		Basic Surveying Practice
		Analysis of Determinate Structures
		Applied Hydraulics
		Concrete Technology

		Construction Management and Entrepreneurship
		Design of Steel Structural Elements
		Highway Engineering
		Water Supply and Treatment Engineering
		Design of RCC and Steel Structures
		Hydrology and Irrigation Engineering
		Quantity Surveying and Contracts Management
		Design of Prestressed Concrete Elements