

## UPRVUNL AE Syllabus 2024

The Computer-Based Examination includes 150 questions from the GATE 2022 syllabus for the relevant Branch (Civil / Electrical / Mechanical / Electronics & Instrumentation / Computer Science). The UPRVUNL AE Syllabus 2024 has yet to be released by the authorities. The syllabus for different engineering specializations is as follows:

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Subject	Syllabus
<b>General Awareness</b>	Current Affairs – National & International
	Uttar Pradesh GK
	Indian Geography
	History – India & World
	Indian Politics
	Science & Technology
	Indian Constitution
	Indian Economy
	Environmental Issues etc.

<b>Hindi</b>	Vocabulary
	Grammar
	Translation of Sentences
	Usage of Words
	Parts of Speech
	Comprehension
	Fill in the blanks etc.
<b>Reasoning</b>	Cubes and Dice
	Mirror Images
	Embedded Figures
	Non-Verbal Series
	Alphabet Series
	Number Ranking
	Arithmetical Reasoning
	Clocks & Calendars

	Blood Relations
	Analogy
	Decision Making
	Directions
	Coding-Decoding
	Number Series
<b>Mechanical Engineering</b>	Material Science and Metallurgy
	Production Technology
	Automotive Engines
	Thermodynamics
	Engineering Mechanics
	Strength of Materials and Design
	Heat Transfer etc.
	Theory of Machines
	Forming Processes

	Operations
	Engineering Materials
<b>Electrical Engineering</b>	C Fundamentals
	Utilization of Electrical Energy
	Power Systems
	Power Electronics & Drives
	Network Theory
	Electrical Machines
	Basic Electrical Engineering Concepts
	Analog and Digital Electronics
	Magnetic Circuit
	Estimation and costing
	Measurement and measuring instruments
	Basic Electronics etc.

<b>Electronics &amp; Communication Engineering</b>	Basics of Circuits and Measurement Systems
	Analog Electronics
	Transducers, Mechanical Measurement and Industrial Instrumentation
	Electrical and Electronic Measurements
	Digital Electronics
	Control Systems and Process Control
	Analytical, Optical Instrumentation
	Signals, Systems, and Communication
<b>Civil Engineering</b>	Engineering Mechanics
	Engineering Materials & Constructions
	Surveying & Measurement
	Mechanics of Solids

	Transport Phenomenon
	Engineering Economy & Management
	Elementary Engineering
	Energy Conversion
	Environmental Engineering
	Structural Analysis
	Structural Design
	Hydrology & Water Resources
	Soil Mechanics & Foundations
	Design of Hydraulic Structures
	Open Channel Flow
	Transportation Engineering
	Hydraulic Engineering
	Public Health Engineering
	Analog Electronics

<b>Instrumentation Engineering</b>	Biomedical Instrumentation
	Analytical Instrumentation
	Basics of Circuits and Measurement Systems
	Control Systems and Process Control
	Industrial Instrumentation
	Digital Electronics
	Systems and Communications
	Optical Instrumentation
	Mechanical Measurement
	Electrical and Electronics Measurements
	Signals
	Transducers
<b>Computer Science Engineering</b>	Data Communication and Networks
	Computer Fundamentals and Programming

	Operating System
	Relational Database Management System
	Cyber Law in India
	Linux System Administration
	Information and Network Security