

UKPSC Polytechnic Lecturer Syllabus 2024 (Expected)

Candidates can get the UKPSC Polytechnic Lecturer Syllabus pdf from the Commission's official website.

1. The written test for UKPSC Polytechnic Lecturer is broken into two parts.
2. Paper 1 is General Studies, and Paper 2 is on the specific subject.
3. The disciplines relevant to Engineering branches will be at the Bachelor's degree level, whilst Non-engineering branches will be at the Postgraduate level.

The candidate can choose one of the disciplines listed below.

1. Architectural Engineering
2. Automobile Engineering
3. Biomedical Engineering
4. Commercial & Computer Practice
5. Ceramic Technology
6. Chemical Engineering
7. Chemistry
8. Civil Engineering
9. Computer Engineering
10. Electronics & Communication Engineering
11. Electrical & Electronics Engineering
12. Electronics and Instrumentation Engineering
13. English
14. Garment Technology

15. Geology
16. Marine Engineering
17. Mathematics
18. Mechanical Engineering
19. Metallurgical Engineering
20. Mining Engineering
21. Pharmacy
22. Physics
23. Textile Technology

The UKPSC Polytechnic Lecturer 2024 syllabus for both papers of the written exam is provided here. The table also includes extensive subject-specific syllabuses, such as the UKPSC Polytechnic Lecturer syllabus for all courses. For further details, visit the official UKPSC website and get the syllabus pdf.

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UKPSC Polytechnic Lecturer Syllabus for Paper-1

Topic	Sub-Topics
Events of National and International Importance	
Current Affairs	Regional, National, and International
General Science and its Application	Information Technology, and Contemporary Developments in Science & Technology

Social-Economic, and Political History of Modern India	Reference to Uttarakhand Pradesh
Indian Polity and Governance	Public policy, constitutional issues, reforms, and e-governance initiatives with special reference to Uttarakhand Pradesh
Economic Development in India and Uttarakhand Pradesh since Independence	
Physical Geography of Indian Sub-Continent and Uttarakhand Pradesh	
Disaster Management	Prevention, and mitigation strategies, vulnerability profile, Application of Remote Sensing and GIS in the assessment of Disaster
Environmental Protection and Sustainable Development	
Logical Reasoning, Data Interpretation, and Analytic Ability	
Data Analysis	Tabulation of data, Visual representation of data, Basic data analysis (Summary Statistics such as median, mean, mode, variance, and coefficient of variation), and Interpretation
Bifurcation of Uttarakhand Pradesh	Economical, Cultural, Political, Administrative, Social, and Legal Problems

UKPSC Polytechnic Lecturer Syllabus for Paper-2 (Concerned Subjects)

Subject	Syllabus
Architectural Engineering	Engineering Mechanics
	Basic Design
	Building Materials
	Building Construction
	Architectural Drawing and Graphics
	Introduction of Art and Architecture
	History of Architecture
	Water Supply and Sanitary Engineering
	Climatology
	Landscape Design and Site Planning
	Building Services
	Sociology of Human Settlements
	Economics, Estimating and Costing
	Town Planning
Building Acoustics	

	Advanced Construction
	Professional Practice
	Computer Applications
Automobile Engineering	Thermodynamics
	Heat Transfer
	Fluid Mechanics and Machinery
	Instrumentation
	Automobile Chassis & Systems
	Material Science: Crystallography of Metals
	Kinematics of Machines: Kinematics
	Dynamics of Machines
	Design of Automobile Machine Parts
	Production Technology
	Industrial Engineering
Biomedical Engineering	Physiology
	Clinical Immersion
	Biomedical Instrumentation

	Electrical Safety and Standards
	Sensors and Transducers for Biomedical Applications
	Amplifiers for Biomedical Applications
	Biomedical Imaging
	Introduction to Radiography
	Sonography
	Computed Tomography
	Magnetic Resonance Imaging
	Radionuclide Imaging
	Positron Emission Tomography (PET) and Single Photon Emission Computed Tomography (SPECT)
	Medical Thermography
	Biomedical Devices
Commercial and Computer Practice	Financial Management
	Financial and Management Accounting
	Managerial Economics

	Business Environment
	Marketing Management
	Quantitative Technique
	Business Mathematics
	Computer Tools for Office Application
Ceramic Technology	Fuels
	Furnaces
	Pyrometry
	Crystal Chemistry
	Glass Technology
	Enamels
	Refractories
	Cement Technology
	Special Ceramic Material
Chemical Engineering	Process Calculation and Thermodynamics
	Fluid Mechanics and Mechanical Operations
	Heat Transfer

	Mass Transfer
	Chemical Reaction Engineering
	Instrumentation and Process Control
	Plant Design and Economics
	Chemical Technology
Chemistry	Inorganic Chemistry
	Chemical Periodicity
	Atomic Structure
	Main Group Elements and their Compounds
	Transition Metal Chemistry and Coordination Compounds
	Organometallic Compounds
	Cage-like Structures and Metal Clusters
	Analytical Chemistry
	Bioinorganic Chemistry
	Characterization of Inorganic Compounds by Infrared
	Nuclear Chemistry

	Physical Chemistry
	Quantum Mechanics
	Atomic Structure and Hydrogen Atom Spectra
	Group Theory
	Kinetic Theory of Gases
	Chemical Kinetics
	Chemical Thermodynamics
	Electrochemistry
	Photochemistry
	Statistical Thermodynamics
	Surface Chemistry
	Catalysis
	Molecular Spectroscopy
	Chemical Equilibrium
	Solid State
	Organic Chemistry
	Heterocyclic Compounds

	General and Comparative Study of Furan-, Pyrrole-, and Thiophene-Ring Transformations
	Aromaticity of Cyclic Compounds
	Organic Reaction Mechanisms
	Study of Reaction Intermediates
	Chemical Rearrangements
	Name Reactions
	Organometallic Reagents and their Application to Organic Reactions
	Transition Metal Catalysis
	Carbohydrates
	Proteins
	Alicyclic Compounds
	Stereochemistry
	Characterization of Organic Compounds by Infrared
Civil Engineering	Analysis of Structures
	Structural Design

	Fluid Mechanics and Hydraulic Machines
	Water Resources Engineering
	Surveying
	Geotechnical Engineering
	Transportation Engineering
	Environmental Engineering
Computer Engineering	Hardware
	Discrete Mathematics
	Theory of Computation
	Compiler
	Programming
	Data Structures and Algorithms
	DBMS
	Operating Systems
	Computer Network
	Computer Graphics
	AI Techniques

	Software Engineering
Electronics and Communication Engineering	Networks, Signals and Systems
	Electronic Devices
	Analog Circuits
	Digital Circuits
	Control Systems
	Communications
	Electromagnetic
Electrical and Electronics Engineering	Electric Circuit
	Electromagnetic Fields
	Signals and Systems
	Electrical Machines
	Power Systems
	Control Systems
	Electrical and Electronic Measurements
	Analog and Digital Electronics
	Power Electronics

Electronics and Instrumentation Engineering	Electric Circuit
	Signals and Systems
	Electrical Machines
	Control Systems
	Measurements
	Analog Electronics
	Digital Electronics
	Sensors and Industrial Instrumentation
	Communication and Optical Instrumentation
English	Movements and Concepts
	Writers and Texts
	English Language Teaching
Garment Technology	Indian Embroidery, Indian Jewellery, Traditional Indian Textiles
	Dyeing and Printing
	Textile Science
	Clothing

	Apparel Manufacturing, Marketing and Merchandising
	Fashion Designing
Geology	Geomorphology and Remote Sensing
	Structural Geology and Geotectonics
	Stratigraphy
	Paleontology
	Crystallography and Mineralogy
	Igneous and Metamorphic Petrology
	Sedimentology
	Geochemistry
	Environmental Geology
	Indian Mineral Deposits and Mineral Economics
	Ore Genesis
	Mineral Exploration
	Fuels
Engineering Geology	

	Hydrogeology
Marine Engineering	Mechanics of Solids
	Theory of Ships
	Ship Structure
	Marine Machinery
	Ship Resistance and Propulsion
	Ship Systems
	Ship Construction
	Sea Keeping and Maneuver Ability
	Ship Vibration
Mathematics	Real Analysis
	Complex Analysis
	Linear Algebra
	Algebra
	Differential Equations
Mechanical Engineering	Fluid Mechanics
	Thermodynamics

	Material Science
	Engineering Mechanics and Strength of Materials
	Manufacturing Process
	Applied Thermodynamics
	Heat Transfer and Refrigeration
	Machine Design
	Machine Drawing and Solid Modeling
	Production Engineering
	Industrial Engineering
Metallurgical Engineering	Thermodynamics and Rate Processes
	Extractive Metallurgy
	Physical Metallurgy
	Mechanical Metallurgy
	Manufacturing Process
Mining Engineering	Mine Development and Surveying
	Geomechanics and Ground Control
	Mining Methods and Machinery

	Surface Environment, Mine Ventilation, and Underground Hazard
	Mine Economics, Mine Planning, Systems Engineering
Pharmacy	Pharmaceutics
	Pharmaceutical Chemistry (Inorganic, Organic)
	Medicinal Chemistry
	Pharmacognosy
	Biochemistry
	Introduction to Anatomy, Physiology, and Pharmacology
	Physical Pharmacy
	Drug Store Management and Pharmacy Administration
	Hospital and Clinical Pharmacy
	Forensic/Pharmaceutical Jurisprudence
Physics	Mathematical Methods of Physics
	Classical Mechanics

	Electromagnetic Theory
	Quantum Mechanics
	Thermodynamics and Statistical Physics
	Electronics
	Atomic & Molecular Physics
	Condensed Matter Physics
	Nuclear and Particle Physics
Textile Technology	Introduction to Fibers, Manufactured Fibers
	Yarn Formation
	Post Spinning
	Advanced Yarn Formation
	Yarn Formation Process
	Fabric Formation
	Introduction to Post Sizing Operations
	Textile Wet Processing
	Textile Testing, Quality Assurance, Mill Management, and Textile Industry

	Role of Government of India in Promotion of Textile and its Allied Activities
	Technical Textiles