

# UPPSC Polytechnic Lecturer Syllabus 2024

## Lecturer Syllabus

Post	Paper	Syllabus
Lecturer Chemical Rubber and Plastic	I	Fundamentals of chemical engineering operation
		Polymer chemistry
		Physical properties of polymers
		Plastic materials and properties
		Rubber materials and compounding additives
		Engineering and high performance plastics
		Plastic processing and machinery
		Rubber and plastic testing
	II	Fundamentals of chemical engineering [II]
		Rubber processing and machinery

		Plastic and rubber mold die design and construction
		Polymer characterization techniques
		Rubber compound and product design
		Polymer composites
		Tyre technology

<b>Post</b>	<b>Paper</b>	<b>Syllabus</b>
Lecturer Footwear Technology	I	Introduction to leather technology
		Testing and quality control
		Leather products technology
		Material of footwear manufacture
		Fundamental of footwear technology and footwear design
	II	Selection of site, footwear and leather goods machinery
		Concept of footwear technology

		Upper closing and finishing operations
		Lasting, making and finishing of leather product
		Computer aided leather product design
Lecturer Interior Design And Decoration	I	Basic design fundamentals
		Materials
		Interior construction
		Drawing
		Applied mathematics for interior design
		Art in interior design
		Ecology & environment
		Services
		History of interior furniture
		Product design
		Photography
		Specifications, cost estimation and budgeting

	Sociology
	Anthropometrics & ergonomics
	Manufacturing and assembly
II	Design fundamentals
	Materials
	Interior construction
	Drawing
	Applied physics for interior design
	Art appreciation
	Sustainable design
	Services
	History of interior furniture
	Interior landscape design
	Acoustics
	Legal ethics & professional practice

		Economics
		Universal design
		Project management

Lecturer Instrumentation and Control	I	Basic circuit analysis
		Electronic devices and circuits
		Digital signal processing
		Basic instrumentation engineering
		Transducers and smart sensors
		Industrial and analytical instrumentation
		Microprocessor and microcontroller
	II	Control systems
		Process control instrumentation
		Power electronics

		Logic and distributed system
		Electrical machines and drives
Lecturer Mathematics	I	Real analysis
		Complex analysis
		Topology
		Rigid dynamics
		Calculus of variations
		Discrete Mathematics
		Mathematical statistics
	II	Abstract algebra
		Fluid dynamics
		Functional analysis
		Integral equations
		Partial differential equations

		Analytical dynamics
		Operations research
Lecturer English	I	English grammar
		Comprehension
		Spelling rules
		Articles
		Parts of speech
		Tenses
		Active and passive voice
		Direct and indirect speech
		Question tag
		Simple, complex and compound sentences
		Synthesis of sentences
		Correct usage

		Infinitive, gerund and participle
		Vocabulary: antonyms, synonyms, one word substitution, homonyms, and antonyms
		Idioms and phrases
		Word formation
		Preposition
		Auxiliaries and modals
		Comparison of adjectives
		Figures of speech
	II	Major authors and their works.
		Literary criticism.
		Literary forms and movements.
Lecturer Chemistry	I	Inorganic chemistry:
		Periodicity in properties of atoms



	Polymers
	Symmetry and group theory
	Chemistry of lanthanides and actinides
	Coordination chemistry
	Main group elements and their chemistry
	Organometallic chemistry
	Bioinorganic and supramolecular chemistry
	Physical chemistry:
	Solid state chemistry
	Surface phenomenon
	Chemical equilibria
	Thermodynamics
	Spectroscopy
	Electrochemistry

	II	Organic chemistry:
		Stereochemistry
		Nucleophilic aromatic substitution
		Common organic reaction and mechanism
		Organic synthesis
		Heterocyclic chemistry
		Pericyclic reactions
		Photochemistry of aromatic compound
		Chemistry of natural products
		Molecules of life processes
Lecturer Physics	I	Mathematical physics
		Classical mechanics and properties of matters
		Thermodynamics and statistical physics
		Optics and acoustics

	II	Electromagnetism
		Quantum mechanics
		Atomic, molecular, nuclear and particle physics
		Electronics and condensed matters
Lecturer Pharmacy	I	Human anatomy and physiology
		Pharmaceutical analysis
		Pharmaceutics
		Pharmaceutical inorganic chemistry
		Pharmaceutical organic chemistry
		Biochemistry
		Pathophysiology
		Physical pharmaceutics
		Medicinal chemistry
		Pharmacology

	Pharmacognosy and phytochemistry
	Pharmaceutical jurisprudence
	Pharmaceutical quality assurance
	Pharmacy practice
	Industrial pharmacy
	Biopharmaceutics and pharmacokinetics
	Pharmaceutical biotechnological
	Instrumental methods of analysis
	Novel drug delivery system
	Biostatistics and research methodology
	Social and preventive pharmacy
	Pharma marketing management
	Pharmaceutical regulatory science
	Pharmacovigilance

		Quality control and standardization of herbals
		Computer aided drug design
		Cosmetic science
		Pharmacological screening methods
		Dietary supplements and nutraceuticals
		Pharmaceutical product development
	II	Human anatomy and physiology
		Pharmaceutical analysis
		Pharmaceutics
		Introduction to biopharmaceutics

<b>Lecturer</b>	<b>Paper I</b>	<b>Paper II</b>
<b>Textile Engineering</b>	Textile fibres-I	Textile fibre-II
	Yarn manufacture-I	Yarn manufacture-II
	Fabric manufacture-I	Woven fabric manufacture

	Knitting	Non-woven
	Chemical processing-I	Fabric structure & design
	Textile testing-I	Chemical processing-II
	Design of spinning machines	Textile testing-II
		Designing of weaving m/cs
<b>Textile Chemistry</b>	Fibres-I	Fibre
	Principal of yarn and fabric manufacture	Fabric testing
	Testing	Chemistry of dyes and colour chemistry
	Preparatory process of textiles	Theory of dyeing and colour measurement
	Technology of dyeing	Technology of printing
	Textile chemicals and quality testing	Technology of finishing
<b>Auto Engineering</b>	Engineering mechanics	Thermodynamics

	Mechanisms and machines	Fluid mechanics
	Mechanics of solids	Heat transfer
	Design of machine elements	Energy conversion
	Engineering materials	Environmental control
	Manufacturing	Mechatronics and robotics
	Industrial engineering	
<b>Architecture</b>	Basic design and architectural design	Architectural design
	Building materials	Building materials
	Building construction	Building construction
	Architectural drawing	Architectural drawing
	Applied mechanics and structural design	Structural design
	Art in architecture	Art appreciation
	Ecology & environment	Climatology

	Surveying	Advanced surveying & geomatic techniques
	Building services	Building services
	Vernacular architecture	Architectural conservation
	Interior and furniture design	Disaster mitigation and management
	Housing	Urban planning
	Building sociology	
	Specifications, cost estimation and budgeting	
	Professional practice	
	Urban design	
	History of architecture	
	Architectural photography	



<b>Dairy Engineering</b>	Importance and scope of milk and dairy in India	Materials and sanitary features of the dairy equipment
	Present scenario, limitations and future possibilities of dairy industries	Dairy process engineering
	Schemes and programmes of dairy development running in UP and national level	Principle of dairy machine design
	Limitations and ways of enhancing dairy marketing	Food engineering
	History, status and processing technologies of market milk	Dairy plant design and layout
	Packaging of milk and milk product	
	Dairy microbiology	
	Dairy chemistry	
<b>Electrical Engineering</b>	Basic electrical engineering	Control system and process application

	Electrical machines	Electrical machines and drives
	Electrical measurement and instrumentation	Switchgear and protection
	Analog electronics	Transducers and smart sensors
	Power system	Computer control of processes
	Microprocessors and microcontrollers	Engineering material
<b>Plastic Mould Technology</b>	Fundamentals of polymer science	Additives and compounding
	Chemistry and thermodynamics of polymers	Polymer composites
	Plastic materials and processing	Characterization of polymeric materials
	Polymerization engineering	Polymer degradation and plastic waste management

	Mould and die manufacturing	Rheology of polymers
	Plastic packaging technology	Diverse applications of polymers
<b>Leather Technology</b>	Microscopy and bacteriology	Analysis of water and different chemicals used for manufacturing
	Skin composition, protein and pre-tanning process	Physical, chemical and instrument analysis of leather and quality control
	Inorganic and organic tanning	Tannery pollution and treatment
	Post tanning and finishing operation for leather manufacturing	Leather trade engineering
	Leather processing	Leather product technology and computer aided design
<b>Carpet Technology</b>	Fibres-I	Fibres-II
	Yarn manufacture-I	Yarn manufacture-II

	Fabric manufacture-I	Woven fabric manufacture-II
	Chemical processing-I	Chemical processing-II
	Textile testing-I	Textile testing-II
	Carpet manufacture	Basis of carpet & textile design
	Fabric structure and design-I	Home textiles & garment
<b>Textile Design (Printing)</b>	Fibres	Fibre-II
	Yarn manufacture	Fabric manufacture-II
	Fabric manufacture-I	Fabric construction & cloth analysis
	Indian traditional textile	Principles of design
	Basic design	Textile design
	Textile colouration	Textile printing II
	Textile printing-I	Textile finishing

	Garment technology	Textile quality assurance
<b>Textile Technology</b>	Textile fibre-I	Textile fibre-II
	Yarn manufacture-I	Yarn manufacture-II
	Fabric manufacture-I	Fabric manufacture-II
	Chemical processing-I	Fabric structure and design
	Textile testing-I	Chemical processing-II
	Technical textiles	Textile testing-II
<b>Paint Technology</b>	Introduction to surface coatings and their components	Heat and mass transfer in paint technology
	Material and energy balance in paint technology	Characterization, analysis and evaluation of coatings
	Technology of inorganic pigments and extenders	Technology of formulation and manufacture of coatings
	Technology of organic functional and effect pigments	Technology of surface preparation, treatment and coating application

	Technology of natural resins, alkyds and polyesters	Technology of printing inks
	Technology of synthetic resins and polymers	Technology of industrial, automotive and speciality coatings
	Fluid flow solid handling, instrumentation and control in paint technology	Technology of architectural and eco friendly coatings
<b>Computer Science</b>	Computer organization and architecture	Operating systems
	Data structures	Computer graphics
	Discrete structures & theory of logic	Artificial intelligence
	Database management systems	Compiler design
	Design and analysis of algorithm	Software engineering
	Computer networks	Distributed system
	Principles of programming languages	Web technologies
	Software project management	Image processing: digital image fundamentals

	Cyber security	Soft computing
		High performance computing
<b>Chemical Engineering</b>	Fluid and particle dynamics	Material and energy balance
	Mass transfer	Chemical engineering thermodynamics
	Heat transfer	Chemical reaction engineering
	Advance separation processes	Chemical technology
	Process equipment design	Environmental pollution monitoring and control
	Process dynamics instrumentation and control	Process engineering economics
<b>Electronics Engineering</b>	Electronic devices	Electromagnetics
	Analog circuits	Analog communication systems
	Advanced electronics	Digital communication basics
	Network theory and basic machines	Digital signal processing
	Digital electronics	Communication networks
	Control systems	Random signals and processes

	Instrumentation	Information theory
	Computer organisation and architecture	Microwave and satellite communication
<b>Civil Engineering</b>	Engineering mechanics	Fluid mechanics
	Strength of materials	Open channel flow
	Structural analysis	Hydraulic machines
	Structural steel design	Hydrology
	Design of concrete and masonry structure	Water resources engineering
	Building materials	Transportation engineering
	Construction management	Railways engineering
	Geotechnical engineering and foundation engineering	Environmental engineering
	Surveying	
<b>Electrical Engineering</b>	Electrical circuits and networks	Analog and digital electronics
	Electromagnetic field theory	Systems and signal processing
	Basic electronics engineering	Induction and special machines



	Electrical and electronics measurements	Power system protection
	Electrical machines	Power electronics and drivers
	Power systems	Electrical material
	Control systems	
<b>Mechanical Engineering/ Workshop Superintendent</b>	Engineering mechanics	Thermodynamics
	Mechanisms and machines	Fluid mechanics
	Mechanics of solids	Heat transfer
	Design of machine elements	
	Engineering materials	Energy conversion
	Manufacturing	Environmental control
	Industrial engineering	Mechatronics and robotics
<b>Librarian</b>	General Studies	General Hindi Subjects
<b>Principal</b>	General Studies	General Engineering and Technology
	General Hindi Subjects	Science

	Ethics and Integrity	Social Justice
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## General Studies Syllabus

The UPPSC Polytechnic Lecturer General Studies Syllabus 2024 includes topics of Current affairs, History, etc. Check the UPPSC Polytechnic Lecturer General Studies Syllabus 2024 below.

<b>UPPSC Polytechnic Lecturer Syllabus for General Studies</b>
History of India and Indian National Movement
Basic Elementary <u>Mathematics</u>
Economy
<u>Verbal Reasoning and Non-Verbal Reasoning</u>
Current affairs events of national and international importance
Indian and World <u>Geography</u>
General Knowledge about Uttar Pradesh

Indian Polity and Governance

General Science

## General Hindi Syllabus

UPPSC Polytechnic Lecturer Syllabus for General Hindi

संबंधित अनेकार्थी शब्द

वर्तनी

वचन

वाक्य संशोधन

कारक

सन्धियां

लिंग

अलंकार

वाक्यांशों के लिए शब्द निर्माण

तत्सम एवं तदभव

लोकोक्तियाँ एवं मुहावरे

रस

पर्यायवाची

समास

विलोम