

UPSC IFS Syllabus 2024

The UPSC IFS Syllabus PDF 2024 can be downloaded from the official website. The Indian Forest Service Syllabus 2024 can be separated into three major parts of the selection process. These phases are UPSC IFS preliminary, UPSC IFS main, and UPSC IFS interview. The Indian Forest Service Syllabus 2024 is the key to achieving effective outcomes. The syllabus for prelims is similar to the UPSC CSE prelims syllabus, as the UPSC CSE preliminary stage acts as a common screening test for both exams. Candidates who pass the UPSC IFS preliminary test are invited to take the UPSC IFS main written exam. This stage will consist of two general papers and four optional papers, each lasting three hours.

UPSC IFS Syllabus for Prelims

The UPSC IFS Prelims will include two papers: Paper 1 General Studies I and Paper 2 General Studies II, often known as CSAT. The first paper assesses candidates' general knowledge, such as current events, while the second paper checks their aptitude for forest service. The Indian Forest Services preliminary syllabus is as follows:

Subject	Topics	Subtopic
General Studies	Current Affairs	Events of national importance
		Events of international importance
	Geography of India and World	Physical Geography of India
		Physical Geography of the World
		Economic Geography of India
		Economic Geography of the World
		Social Geography of India
		Social Geography of the World
	History	Indian History
		Indian National Movement
	Economic and Social Development	Social Sector Initiatives
		Inclusion
		Sustainable Development
		Poverty
		Demographics

	Indian Polity and Governance	Constitution of India
		Political System
		Panchayati Raj
		Rights Issues
		Public Policy
	Environment and Science	Environmental ecology
		Climate Change
		Biodiversity
	General Science	General issues on Science
	CSAT	Reading Comprehension
Interpersonal skills including communication skills		
Reasoning		Logical reasoning
		Analytical ability
		Decision-making
		Problem-solving
General Mental Ability		Basic numeracy
		Numbers and their relations
		Orders of magnitude
Data Interpretation		Charts
		Tables
		Graphs
		Data sufficiency

UPSC IFS Syllabus for Mains

Every applicant granted the marks from this stage must have the Indian Forest Service Mains Syllabus PDF with them in order to be selected. The UPSC IFS Syllabus for Mains is divided into six main papers. There are four optional papers, from which candidates can choose two. The syllabus for the UPSC IFS main exam is given below:

UPSC IFS Syllabus for Compulsory Subjects

The required papers are General English and General Knowledge. Candidates have no choice of subjects for these papers. The topics covered in the UPSC IFS syllabus for compulsory papers are shown in the table below:

Subject	Topics	Subtopic	
General English	One Essay in English	Essay writing	
	Understanding of English	Workmanlike use of words	
	Summary or Precis		Passage comprehension
			Summary writing
			Precis writing
General Knowledge	General Knowledge	Knowledge of current events	
		General knowledge expected of an educated person	
	Indian Polity	Political system	
	Constitution of India	Constitutional knowledge	
	History of India	Historical events	
	Geography	Geographical knowledge	

UPSC IFS Syllabus for Optional Subjects

In the UPSC IFS Mains, candidates must choose two optional subjects from a list of 14. Part A and Part B will make up the UPSC IFS Optional Paper. There will be eight questions in each optional subject paper, four in each section. The UPSC IFS Syllabus 2024 for optional papers is given below:

Subject	Paper	Topic
Agriculture	Paper I	Ecology
		Cropping patterns and related topics
		Forestry plantations
		Soil
		Farm management
		Agricultural extension, etc.
	Paper II	Cell Theory
		Cytoplasmic inheritance

		Seed technology
		Physiology
		Growth and development
		Pests and diseases
		Food production
Animal Husbandry & Veterinary Science	Paper I	Animal Nutrition
		Animal Physiology
		Livestock Production and Management
		Genetics and Animal Breeding
	Paper II	Health and Hygiene
		Veterinary Public Health
		Animal Diseases
		Milk and Milk Products Technology
		Meat Hygiene and Technology
		Extension
Chemistry	Paper I	Atomic structure
		Chemical bonding
		Solid State
		The gaseous state
		Thermodynamics and statistical thermodynamics
		Phase equilibria and solutions
		Electrochemistry
		Chemical kinetics
		Photochemistry
		Surface phenomena and catalysis
		Bio-inorganic chemistry
		Coordination chemistry
		General chemistry of 'f' block elements
		Non-Aqueous Solvents
	Paper II	Delocalised covalent bonding
		Pericyclic reactions

		Reactions
		Chemistry and mechanism of reactions
		Polymeric Systems
		Synthetic uses of reagents
		Photochemistry
		Principles of spectroscopy and applications in structure elucidation
Agricultural Engineering	Paper I	Soil and Water Conservation
		Aerial Photography and Remote Sensing
		Irrigation and Drainage
		Agricultural Structures
	Paper II	Farm Power and Machinery
		Agro-energy
		Agricultural Process Engineering
		Instrumentation and Computer Applications in Agricultural Engineering
Botany	Paper I	Microbiology and Plant Pathology
		Cryptogams
		Phanerogams
		Plant Utility and Exploitation
		Morphogenesis
	Paper II	Cell Biology
		Genetics, Molecular Biology and Evolution
		Plant Breeding, Biotechnology and Biostatistics
		Physiology and Biochemistry
		Ecology and Plant Geography
Civil Engineering	Paper I	Strength of materials
		Structural analysis
		Engineering Mechanics
		Structural Steel Design
		Design of Concrete and Masonry Structures
		Fluid Mechanics, Open channel flow, and Hydraulic Mechanics
		Hydraulic Machine and Hydropower

		Geotechnical engineering	
	Paper II	Construction Technology	
		Construction Equipment	
		Survey and Transport Engineering	
		Hydrology, Water Resources, and Engineering	
		Environmental Engineering	
Chemical Engineering	Paper I	Fluid and Particle Dynamics	
		Mass Transfer	
		Heat Transfer	
		Noval Separation Processes	
		Process Equipment Design	
		Process Dynamics and Control	
	Paper II	Material and Energy Balances	
		Chemical Engineering Thermodynamics	
		Chemical Reaction Engineering	
		Chemical Technology	
		Environmental Engineering and Safety	
		Process Engineering Economics	
Forestry	Paper I	Silviculture	
		Agroforestry, Social Forestry, Joint Forest Management and Tribology	
		Forest Soils, Soil Conservation and Watershed management	
		Environmental Conservation and Biodiversity	
		Tree Improvement and Seed Technology	
	Paper II	Forest Management and Management Systems	
		Forest Working Plan	
		Forest Mensuration and Remote Sensing	
		Surveying and Forest Engineering	
		Forest Resources and Utilization	
		Forest Ecology and Ethnobotany	
		Forest Protection & Wildlife Biology	
		Forest Economics and Legislation	
Mathematics	Paper I	Linear Algebra	

		Calculus
		Analytic Geometry
		Dynamics, Statics, and Hydrostatics
		Vector Analysis
		Ordinary Differential Equations
	Paper II	Algebra
		Real Analysis
		Complex Analysis
		Linear Programming
		Partial differential equations
		Numerical Analysis and Computer programming
		Numerical integration
		Numerical solution of ordinary differential equations
		Computer Programming
Mechanics and Fluid Dynamics		
Mechanical Engineering	Paper I	Theory of Machines
		Mechanics of Solids
		Engineering Materials
		Manufacturing Science
		Manufacturing Management
	Elements of Computation	
	Paper II	Thermodynamics
		I.C. Engines, Fuels and Combustion
		Heat Transfer, Refrigeration and Air Conditioning
		Turbomachine and Powerplants
Physics	Paper I	Classical Mechanics
		Special Relativity, Waves & Geometrical Optics
		Physical Optics
		Electricity and Magnetism
		Electromagnetic Theory & Black Body Radiation
	Thermal and Statistical Physics	
	Paper II	Quantum Mechanics I
		Quantum Mechanics II & Atomic Physics

		Molecular Physics
		Nuclear Physics
		Particle Physics & Solid State Physics
		Electronics
Zoology	Paper I	Non-Chordata and Chordata
		Ecology
		Ethology
		Economic Zoology
		Biostatistics
		Instrumental Methods
	Paper II	Cell Biology
		Genetics
		Evolution
		Systematics
		Biochemistry
		Physiology
		Developmental Biology
Statistics	Paper I	Probability
		Statistical Inference
		Linear Inference and Multivariate Analysis
		Sampling Theory and Design of Experiments
	Paper II	Industrial Statistics
		Optimization Techniques
		Quantitative Economics and Official Statistics
		Demography and Psychometry
Geology	Paper I	General Geology
		Geomorphology and Remote Sensing
		Structural Geology
		Paleontology
		Stratigraphy and Geology of India
		Hydrogeology and Engineering Geology
	Paper II	Mineralogy
		Igneous and Metamorphic Petrology

		Sedimentology
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