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UPCATET 2025 Syllabus PDF

Uttar Pradesh Combined Agriculture and Technology Entrance Test
(UPCATET)

UPCATET 2025 Syllabus for UG Courses - Physics

Introduction to Physics	Universe
The Solar System and Satellites	Resistance of a Conductor
Refraction of Light	Refraction of light by Spherical Mirrors
Reflection of Light	Refraction of light by Spherical Lenses
Refraction of light through a glass prism	The Human Eye and its defects
Thermal Expansion of Solids, Liquids and Gases	Mechanical Properties of Fluids
Sound: Doppler Effect and Echo	Magnetic Effects of Electric Current
Waves	The Kinetic Theory Of Matter
The Four Fundamental Forces	Special and General Theories of Relativity
Radioactivity	Nuclear Fission and Fusion
Motion and Mechanics	Heat and Work
Electromagnetism	Electric Current

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UPCATET 2025 Syllabus for UG Courses - Chemistry

Atoms, Molecules, and Chemical Arithmetic	Atomic Structure
Radioactivity and Nuclear Chemistry	The Periodic Table and Chemical Families
Chemical Bonding and Molecular Structure	Coordination Compounds
Gaseous State	

UPCATET 2025 Syllabus for UG Courses - Biology

Chemical Coordination	Genetics-Molecular Basis of Inheritance
Animal Morpho	Mineral Nutrients
Anatomy of Flowering Plants	Cell Division
Environmental Issues pollutions and its after-effects	Application of Biotechnology
Sensory System	Biomedical Technologies
Excretion, Movement and Locomotion, lungs and Respiration, Fungi, and Food production Breeding	

UPCATET 2025 Syllabus for UG Courses - General Studies

General Science	Our Environment
History of India	Independent India
Indian Politics and Economy	Sports
History, Geography, and the Culture	Information and Communication Technology

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UPCATET 2025 Syllabus for PG Courses - M.Sc. (Community Science/Home Science)

Food and Nutrition	General Studies
Home Science Extension Education	Home Management
Clothing and Textiles	Statistics
Child Development	

UPCATET 2025 Syllabus for PG Courses - M.Sc. Biotechnology

General Studies	Molecular Biology & Genetic Engg.
Recombinant DNA Technology	Bioinformatics
Pathology & Microbiology	Cell Biology
Immunology	Animal Biotechnology
Commercial Biotechnology	Biochemistry & Physiology

UPCATET 2025 Syllabus for PG Courses - M. Sc. (Agriculture.) / M.Sc. (Horticulture)

General Knowledge	Horticulture
Soil Science	Agronomy and Agrometeorology
Agril. Engg.	Agriculture
Animal Husbandry and Dairy	Genetics and Plant Breeding
Biotechnology	Extension Education
Entomology	Agril. Economics
Seed Technology	Plant Pathology and Nematology
Statistics	Biotechnology
Forestry	Soil Conservation

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UPCATET 2025 Syllabus for PG Courses - M.V.Sc

General Knowledge	L.P.M.
Surgery & Radiology	Vet. Microbiology
Animal Nutrition	Animal Genetics & Breeding
Pathology	Epidemiology & Public Health
Parasitology	Medicine
Extension	Gynecology

UPCATET 2025 Syllabus for PG Courses - M.Tech Agricultural Engineering

General Knowledge	Milling of Agril. Produce
Storage Engg.	Engineering Properties of Bio-material
Heat and Mass Transfer	Dairy and Food Engg.
Farm Machinery and Power	Soil and Water conservation and Irrigation Engg

UPCATET 2025 Syllabus for PG Courses - M.Tech (Mechanical Engineering)

General Knowledge	Thermodynamics, I.C. Engine 24
Power Plant Engg. 24	Refrigeration and Air Conditioning 24
Heat and Mass Transfer 25	Fluid Mechanics 25
Machine Design 26	Production Engg. Industrial Engg

UPCATET 2025 Syllabus for PG Courses - M.F.Sc (Master of Fisheries Science)

General Knowledge	Aquaculture
Fisheries Resource Management	Aquatic Environment Management
Aquatic Animal Health Management	Fish Processing Technology
Fisheries Engineering	Fisheries Extension, Economics, and Statistics

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UPCATET 2025 Syllabus for PG Courses - M.Sc Forestry

General Knowledge	Principles of Silviculture
Silvicultural Systems	Forest Mensuration
Wood Science & Technology	Fundamentals of Forest Protection
Agro forestry	Social Forestry
Forest Ecology and Management	Forest Nursery and Afforestation Techniques

UPCATET 2025 Syllabus for PG Courses - MBA (Agri-Business Management)

General Knowledge	General English of High School Standard
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UPCATET 2025 Syllabus for PhD Courses - MBA (Agri. Business) Program

General Knowledge	Reasoning & Aptitude
General English of High School Standard	

UPCATET 2025 Syllabus for PhD Courses - Statistics (Common Subject)

Measures of central tendency and dispersion	Skewness and kurtosis
Probability	Normal distribution (properties only)
Sampling theory concerning crop estimation survey (random, stratified, and multistage sampling).	Regression and correlation (including partial and multiple correlations with their test of significance)
Test of significance (t, Z, f, and X ² - test)	Analysis of variance
Principles of experimental designs	Completely Randomized Design
Randomized Block Design	Latin Square Design
Factorial Experiments (23 factorial experiments)	Split Plot design
Analysis of Covariance	Missing plot Technique (in R.B.D. and L.S.D. with one value missing)
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