LU B.Sc (Maths PCM + Bio ZBC) Entrance Exam 2027

Detailed Syllabus · Lucknow University · by LUUPDATE

🎯 **LU B.Sc (Maths PCM + Bio ZBC) Entrance 2027 – Safalta Batch**

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Based on the official University of Lucknow Admission Brochure & notices. Final 2027 notification aane par changes ho sakte hain – confirm on lkouniv.ac.in. Full info: luupdate.com/lu-entrance-2027

Exam Pattern (UGET) — overview

Every programme: **100 MCQ-based questions · 2 marks each (total 200) · 90 minutes · no negative marking** (official UG brochure 2027-28, Sec 6.1). All questions at 10+2 level. The main subjects for each course below are exactly as listed in the official brochure (Sec 6.2); the sub-topics under each are an indicative LUUPDATE study guide.

B.Sc. (Maths) (NEP) — detailed

Official subjects (6.2.3, 10+2 level): **Physics, Chemistry, Mathematics** + **Mental Aptitude** + **Basic Computer Application.**

Physics: units & measurement, kinematics, laws of motion, work-energy-power, gravitation, properties of matter, heat & thermodynamics, oscillations & waves, electrostatics, current electricity, magnetism & EMI, ray & wave optics, modern physics & semiconductors.
Chemistry: atomic structure, periodic table, chemical bonding, states of matter, thermodynamics, equilibrium, redox, electrochemistry, s/p/d-block, coordination compounds, organic (hydrocarbons, functional groups, biomolecules, polymers).
Mathematics: sets-relations-functions, trigonometry, complex numbers, quadratic equations, sequences & series, permutations & combinations, binomial theorem, matrices & determinants, calculus (limits, differentiation, integration, differential equations), vectors, 3D & coordinate geometry, probability, statistics.
Mental Aptitude: series, analogy, coding-decoding, blood relations, direction, syllogism, puzzles, number aptitude.
Basic Computer Application: computer fundamentals, hardware/software, MS Office, internet & email, basic terminology.

📚 LUUPDATE — Detailed Sub-Topics (priority-tagged: HIGH / MEDIUM / LOW):

Physics

[HIGH] Units, motion & Newton laws
[HIGH] Work, energy, power
[HIGH] Gravitation
[MEDIUM] Properties of matter; SHM
[HIGH] Heat & thermodynamics; kinetic theory
[MEDIUM] Oscillations, waves & sound
[HIGH] Electrostatics
[HIGH] Current electricity
[HIGH] Magnetism & EMI; AC
[MEDIUM] Ray & wave optics
[HIGH] Modern physics — atoms & nuclei
[MEDIUM] Semiconductors / electronics

Chemistry

[HIGH] Atomic structure
[HIGH] Mole concept
[HIGH] Thermodynamics
[HIGH] Chemical equilibrium
[HIGH] Electrochemistry
[MEDIUM] Chemical kinetics; solutions
[HIGH] Periodic table & periodicity
[HIGH] Chemical bonding
[MEDIUM] s/p/d block elements
[MEDIUM] Coordination compounds; metallurgy
[HIGH] Organic basics & isomerism
[HIGH] Hydrocarbons
[HIGH] Functional groups
[MEDIUM] Biomolecules & polymers

Mathematics

[HIGH] Sets, relations & functions
[HIGH] Complex numbers
[HIGH] Quadratic equations
[HIGH] Sequences & series
[MEDIUM] Binomial theorem
[HIGH] Matrices & determinants
[HIGH] Trigonometric ratios & identities
[HIGH] Trigonometric equations
[HIGH] Straight line
[HIGH] Circle
[MEDIUM] Parabola, ellipse, hyperbola
[HIGH] Limits & continuity
[HIGH] Differentiation

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[HIGH] Applications of derivatives
[HIGH] Integration
[HIGH] Definite integrals
[MEDIUM] Differential equations
[HIGH] Vectors & 3D geometry
[MEDIUM] Probability
[MEDIUM] Statistics

Mental Aptitude & Computer
[MEDIUM] Series, analogy, logical puzzles
[MEDIUM] Computer fundamentals & internet basics

B.Sc. (Biology) (NEP) — detailed

Official subjects (6.2.4, 10+2 level): **Chemistry, Botany, Zoology** + **Mental Aptitude** + **Basic Computer Application.** *(No Physics in this entrance.)*

Chemistry: atomic structure, periodic table, chemical bonding, acids-bases-salts, states of matter, thermodynamics, equilibrium, redox, electrochemistry, s/p/d-block, organic (hydrocarbons, functional groups, biomolecules, polymers).
Botany: cell structure & division, biomolecules, plant tissues & anatomy, morphology, photosynthesis, respiration, plant growth & hormones, transport in plants, reproduction in flowering plants, genetics, ecology & ecosystem, plant classification, biotechnology basics.
Zoology: animal tissues, structural organisation, human physiology (digestion, respiration, circulation, excretion, locomotion, nervous & endocrine, reproduction), health & diseases, immunity, evolution, animal classification, biotechnology applications.
Mental Aptitude: series, analogy, coding-decoding, blood relations, direction, syllogism, puzzles, number aptitude.
Basic Computer Application: computer fundamentals, hardware/software, MS Office, internet & email, basic terminology.

📚 **LUUPDATE — Detailed Sub-Topics (priority-tagged: HIGH / MEDIUM / LOW):**
Chemistry
[HIGH] Atomic structure & mole concept
[HIGH] Thermodynamics & equilibrium
[MEDIUM] Electrochemistry & kinetics; solutions
[HIGH] Periodic table & periodicity
[HIGH] Chemical bonding
[MEDIUM] s/p/d block; coordination; metallurgy
[MEDIUM] Qualitative analysis
[HIGH] Organic basics & isomerism
[HIGH] Hydrocarbons & functional groups
[MEDIUM] Biomolecules & polymers

Botany

[HIGH] Cell structure & organelles
[HIGH] Cell division (mitosis/meiosis)
[MEDIUM] Plant tissues, morphology & anatomy
[HIGH] Photosynthesis
[HIGH] Respiration in plants
[MEDIUM] Transport in plants; growth & development
[HIGH] Genetics — Mendel & inheritance
[HIGH] Molecular biology — DNA/RNA
[MEDIUM] Plant reproduction
[MEDIUM] Ecology & biodiversity
[MEDIUM] Plant classification

Zoology
[HIGH] Animal tissues
[HIGH] Digestive & respiratory systems
[HIGH] Circulatory & excretory systems
[HIGH] Nervous & endocrine systems
[HIGH] Human reproduction & reproductive health
[HIGH] Genetics & evolution
[MEDIUM] Animal kingdom classification
[MEDIUM] Human health & diseases
[MEDIUM] Biotechnology basics

Mental Aptitude & Computer
[MEDIUM] Reasoning — series, analogy, puzzles
[MEDIUM] Computer fundamentals & internet

🔥 **Is syllabus ki poori taiyari – LU B.Sc (Maths PCM + Bio ZBC) Entrance 2027 Safalta Batch**
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