Kathmandu University
Undergraduate Admission 2025/2026

Kathmandu University Common Admission Test (KUCAT) 2025

KUCAT-CBT Committee 2025

Information on

KUCAT Computer Based Test (KUCAT-CBT) and Test Syllabus 2025

June 2025

KATHMANDU UNIVERSITY

Undergraduate Admission 2025

Kathmandu University Common Admission Test

(KUCAT-CBT 2025)

Kathmandu University calls for application for admission in Undergraduate Programs in School of Engineering and School of Science for the academic year **2025/2026.**

To be fully eligible for admission, candidates must have **passed 10+2 level (or equivalent)** with a minimum aggregate GPA of 2.0 (aggregate 50% in percentage scale) and must have appeared in Kathmandu University Common Admission Test (**KUCAT-CBT 2025**). Candidates are strongly suggested to read the **'Application Call 2025'** to avoid any confusion.

All candidates seeking admission to the undergraduate programs for intake 2025/2026 of School of Engineering shall appear in the KUCAT-CBT 2025 and obtain KUCAT-CBT rank. Candidates are tested for their abilities in PCM (Physics, Chemistry, and Mathematics) or PCB (Physics, Chemistry, Biology) for the entire offered program. Admission is offered based on rank at KUCAT-CBT in all the categories described in the application call 2025.

KUCAT is conducted in a computer-based mode called Computer Based Test (CBT). For the academic session 2025/2026 CBT test is conducted at four different centers. List of centers are given below:

Center 1: Lalitpur
Center 2: Dhulikhel
Center 3: Biratnagar
Center 4: Butwal

Please note that **THE TEST IS NOT AVAILABLE ONLINE.**

This document describes KUCAT-CBT 2025 and outlines the syllabus for relevant subjects. Candidates are strongly recommended to go through this document carefully for better test preparation. For updated information, one should always check KU websites: http://www.ku.edu.np and http://apply.ku.edu.np/.

1. Overview of KUCAT-CBT

- Total duration of each test (KUCAT-CBT) is **two hours** and has **120 multiple choice questions** in total.
- The test contains three parts, one for each in PCM or PCB. There are **40 multiple choice questions in each part**. The questions are distributed uniformly across the topics of the syllabi provided at the end of this document.
- For each subject, the syllabus has 40 topics. In the actual test, one question will be asked from each topic.
- Questions are categorized into one of the five possible difficulty levels from 1 to 5: 1 being the easiest and 5 being the toughest.
- Each part of the exam starts with a difficulty level 1 question. If a candidate answers a question of a particular difficulty level correctly, the difficulty level of the subsequent question will be increased by 1. Similarly, if a candidate answers a question of a particular difficulty level incorrectly, the difficulty level of the subsequent question will be decreased by 1. However, answering a difficulty level 5 question correctly or a difficulty level 1 question incorrectly will not change the difficulty level of the subsequent question.
- The initial score of the candidate is zero. Answering a question of difficulty level 1 will add 11 points to the candidate's total score while the score added by higher difficulty level question increases by 2 for each of the higher difficulty level. (e.g., answering a question of difficulty level 5 correctly adds 19 to the total score).
- CBT scores range from 0 to 2220, 0 being the score for attempting all the questions and answering all of them incorrectly, and 2220 being the score for answering all the questions correctly.
- The candidates are **not allowed to skip any questions or go back to the submitted questions but are allowed to switch between the subjects (parts) any time during the test.**
- The candidate will be able to view their ***KUCAT-CBT scores at the end of their tests***.

2. Registering for the Test

- The registration is announced with the admission call notice. The registration for KUCAT-CBT 2025 starts on **26 June 2025.** The registration deadline is **21 July 2025.** The application for the test is available ONLINE only.
- Fill the online application form available at http://apply.ku.edu.np/cbt. A **valid email id** is required for online application. Confirmation **link** and confirmation **code** will be sent by email. Be sure to click on the confirmation link and enter the confirmation code for online application. Use the login credentials provided to log into the online application system and complete the online admission form. *(If a confirmation link is not found in the inbox, please check the junk/spam/promotions folder as well.)*
- Pay the required application processing fee. Fees can be paid using any method specified in the Procedure of Application and Admission 2025. Refer to the admission call document for details. Upload/Provide evidence of fee payment through online form.
- Download and color print the admission card after it becomes available in your registered email account. Date, time and center for the CBT test are mentioned in the admission card. Appear at the test center accordingly.
- Any additional Information or Instruction if needed will be published on the university website at appropriate time.

3. Appearing in the Test

3.1. Appear in KUCAT-CBT-2025 on the exact date and exact time as notified. Note the following for appearing in the test:

3.1.1. Arrive at least 30 minutes before the commencement of the examination at the examination hall.

3.1.2. Any candidate arriving late for his/her test will shorten their allocated time of 2 hrs. Scheduled time will not be extended for delayed candidates for whatsoever reason.

3.1.3. **Do not forget** to bring your color printed admission card and **original** personal identification (the one that was uploaded at the time of filling the application form). Scanned copy and photo (printed copy or non-printed copy) are not accepted as original ID.

3.1.4. **Any sort of calculator is not allowed**. If necessary, the candidate will have to use a calculator available on the desktop of the computer.

3.1.5. Only pens and pencils are allowed in the test room. Other electronic items and writing materials are not permitted inside the examination hall. Mobile phones, wireless devices, or any other portable electronic devices are **strictly prohibited**.

3.1.6. Attempting to cheat in the entrance exam, by any means, or failing to comply with invigilators' instructions may disqualify the candidates from the admission process.

3.1.7. The candidates are advised to wait quietly outside their respective examination halls for invigilator's instruction to enter the examination hall.

3.1.8. After verifying the admission cards and photo IDs, the candidates will be provided with the login credentials for CBT. The candidates are required to leave their bags and belongings at the assigned place before taking seats at their respective computers. Additional instruction may be provided at the time of test if necessary.

3.1.9. The candidates can log in to their tests, using the credentials provided, after the invigilator's indication to do so. The candidates shall **verify their names on the screen.**

3.1.10. The candidates can start with one of the three subjects from the list. The exam starts as soon as the candidate clicks on one of the subjects. Time remaining to finish the exam is shown on the screen.

3.1.11. If the candidates face any difficulties or have queries during the test, they can call the invigilators by raising their hands. The candidates are not allowed to communicate with or look at the screens of peer candidates at any point of time during the test.

3.1.12. After completing the test, the candidates are required to view their results, showing it to one of the invigilators. The invigilators will record the score manually on the record sheet and the candidate needs to properly sign their score before logging out from the CBT system and leaving the examination hall

3.1.13. Use of the restroom is permitted only 30 minutes after the start of the test and within 15 minutes before completion time.

3.1.14. Note any other rules mentioned in the KUCAT-CBT 2025 admission card and comply with the rules.

3.1.15. Failing to comply with the examination rules and attempt of use of any unfair means in the examination will result in disqualification from the admission process.

Note:

One candidate can have only one application and will be allowed to appear in KUCAT-CBT only once. If multiple applications are identified from the same applicant (using same or different identification document) or if the candidate appears in KUCAT-CBT exam more than once, his/her exams will be cancelled, and he/she will be disqualified for the admission process.

LIST OF SYLLABUS

Syllabus for Biology			
S.N.	**Topics**	**S.N.**	**Topics**
1	Introduction to Biology	21	Animal Nutrition and Digestive system
2	Cell, cell-division and life components	22	Respiratory system
3	Origin of Life	23	Circulation of body fluids
4	Theory of Evolution by Natural Selection	24	Excretion and osmoregulation
5	Human Evolution	25	Nervous system
6	Heredity and variation	26	Endocrine system
7	Regulation of replication, transcription, translation and expression of genetic material	27	Animal reproduction and embryonic development
8	Concept of Taxonomy	28	Amniocentesis
9	Monera	29	Growth, Repair, Regeneration, Ageing and Death
10	Viruses	30	Animal Behaviour
11	Protista	31	Concept of ecosystem
12	Mycota	32	Environmental pollution
13	Plantae	33	Green-house effect and global warming
14	Morphology, Reproduction, Growth and Development of Flowering Plant	34	Conservation of Natural resources
15	Photosynthesis	35	Pesticides
16	Transpiration	36	Bio-fertilizers and biological pest control
17	Animalia	37	Biotechnology
18	Study of Earthworm	38	Domestication of plants and crop improvements
19	Study of Frog	39	Bioenergy
20	Animal Tissues	40	Mental health, addiction and community health

Syllabus for Physics			
S.N.	**Topics**	**S.N.**	**Topics**
A.	**Mechanics:**	**D.**	**Waves:**
1	Physical Quantity	21	Wave motion
2	Kinematics	22	Sound
3	Dynamics	23	Electromagnetic waves
4	Energy	**E.**	**Electrostatics and D. C. Circuits:**
5	Rotational motion	24	Simple Electrostatic Phenomenon
6	Gravitation	25	Charge flow
7	Structure and Properties of Matter	26	Resistance
8	Elasticity	27	Effect of Current
9	Viscosity	28	Capacitors
10	Surface tension	**F.**	**Magnetic field and Current:**
B.	**Heat & Thermodynamics:**	29	Magnetic field
11	Heat and temperature	30	Force on conductor
12	Transmission of heat	31	Magnetic materials
13	Basic assumption of kinetic theory of gasses	32	Electromagnetic induction
14	Thermodynamics	33	Alternating current
C.	**Optics:**	**G.**	**Modern Physics:**
15	Reflection	34	Electron
16	Refraction	35	Photons
17	Speed of light	36	Electronic
18	Dispersion of light	37	Atoms
19	Optical Instrument	38	Nucleus
20	Photometry	39	Radioactivity
		40	Elementary particles

Syllabus for Chemistry			
S.N.	**Topics**	**S.N.**	**Topics**
A.	**General & Physical Chemistry:**	**B.**	**Inorganic Chemistry:**
1	Language of Chemistry	21	Hydrogen, Oxygen and Nitrogen
2	Gaseous state of matter	22	Carbon
3	Liquid state of matter	23	Sulphur and its compound
4	Solid state of matter	24	Halogen and halogen acids
5	Laws of Stoichiometry	25	Introduction to Metals
6	Avogadro's Hypothesis and its important applications	26	Alkali and alkaline earth metals
7	Atomic structure	27	Coinage metals
8	Quantum numbers	28	Heavy metals
9	Chemical bonding	**C.**	**Organic Chemistry:**
10	Oxidation and Reduction	29	Introduction to Organic Chemistry
11	Acids, Bases and Salts	30	Hydrocarbons
12	Acidimetry and Alkalimetry	31	Organic halogen compounds
13	Periodic Table	32	Alcohols
14	Electrochemistry	33	Ethers
15	Electrode potential	34	Carbonyl Compounds
16	Chemical Kinetics	35	Carboxylic Acids
17	Chemical Equilibrium	36	Amines
18	LeChatelier’s Principle	37	Aromatic Hydrocarbons
19	Chemical Thermodynamics	38	Aniline and Nitrobenzene
20	Entropy and spontaneity	39	Carbohydrates, Proteins, Nucleic Acids, Lipids
		40	Polymers, Pesticides, Dyes and Drugs

Syllabus for Mathematics			
SN	**Topics**	**SN**	**Topics**
1	Representation of Data	21	Integration
2	Measures of Location and Spread	22	Volume of revolution
3	Probability	23	Polynomial
4	Permutation and Combination	24	The Modulus function
5	Probability Distributions	25	Exponential and Logarithmic function
6	Binomial Distributions	26	Differentiating Exponential and Logarithmic Functions
7	Expectation and Variance of a random variable	27	Differentiating Trigonometric Function
8	Normal Distribution	28	Determinants
9	Surds and indices	29	Matrices
10	Functions and Graphs	30	Equation of Straight Lines
11	Quadratics and Inequalities	31	A pair of lines
12	Differentiation	32	System of linear equations
13	Application of Differentiation	33	System of Linear Inequalities and Graphs
14	Sequences	34	Complex Numbers
15	Binomial Theorem	35	Limits and Continuity
16	Trigonometry	36	Coordinate Space
17	Extending Differentiation	37	Plane
18	Vectors	38	Concept of Sets
19	Geometric Sequences	39	Relation
20	Second Derivative	40	Functions