

ECAT Syllabus 2022

Note: ECAT has no selective syllabus given by UET or any other authority in Pakistan. The syllabus given below is the result of analysis of past papers of ECAT. Kindly prepare full books.

English

The English portion is further divided into

- Vocabulary
- Grammar
- Comprehension

This part includes common topics like:

1. Active and passive voice
 2. Narration (direct and indirect speech)
 3. Correct and incorrect word choice or sentences
 4. Detecting errors in a sentence
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5. Subject-verb agreement
 6. Putting into order the disarranged words in a sentence
 7. Sentence completion
 8. Punctuation

Comprehension

Comprehension basically refers to the understanding of an unseen i.e., previously unattempted passage and subsequently, answering the queries asked in the end. The questions may vary from the content to the vocabulary of the passage.

Chemistry

Chapters Included

The important chapters included in the syllabus for ECAT are as follows:

- Aromatic hydrocarbons
- Alkyl halides
- Aldehydes
- Alcohols
- Atomic structure
- Basic concepts of chemistry
- Chemical equilibrium
- Chemical bonding
- Common chemical industries
- Carboxylic acids
- Electrochemistry
- Environmental chemistry
- Experimental techniques of chemistry
- Gases
- Ketones
- Liquids and solids
- Macromolecules
- Phenols and ethers
- Periodic classification of elements and periodicity
- Reaction kinetics
- Solutions
- Thermochemistry

Physics

Chapters Included

Following are the important chapters included in the syllabus for Physics:

- Atomic spectra
- Alternating current
- Current electricity
- Circular motion
- Dawn of modern physics
- Electromagnetism
- Electronics
- Electrostatics
- Electronics
- Heat and thermodynamics
- Motion and force
- Measurement
- Nuclear physics
- Oscillations
- Physics of solids
- Vectors and equilibrium
- Waves
- Work

Mathematics

From FSc part I mathematics textbook

- Application of trigonometry
- Fundamentals of trigonometry
- Inverse trigonometric functions
- Matrices and determinants
- Mathematical induction and binomial theorem
- Number system
- Partial fraction
- Permutation, combination, and probability
- Quadratic equation
- Sequence and series
- Solutions of trigonometric equation
- Sets, functions, and groups
- Trigonometric identities
- Trigonometric functions and related graphs

From FSc part II mathematics textbook

- Differentiation
- Functions and limits
- Introduction to analytic geometry
- Integration
- Linear inequalities and linear programming
- Conic section
- Vectors