

CAREERS 360

PREPARATION **Series**

KCET 2025

Syllabus



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Introduction

Karnataka Common Entrance Test (KCET) is conducted for the admission in B.Tech courses offered by various colleges. The exam is conducted for undergraduate admissions. KCET exam is conducted in Online mode. The questions asked in the exam will be from Physics, Chemistry and Mathematics. Candidates first need to fill the application form to appear for the CET exam. Shortlisted candidates will be called for counselling and admission process later.

Highlight of KCET exam

Particulars	Specifications
KCET full form	Karnataka Common Entrance Test
Commonly known as	KCET
KCET official website	https://cetonline.karnataka.gov.in/kea/
Conducting Body	Karnataka Examinations Authority (KEA)
Admission Category	Undergraduate
Level of Examination	State Level Exam
Mode of Application	Online
Mode of Examination	Online

KCET Syllabus



Karnataka Examination Authority (KEA) prescribes the syllabus in the official notification. Candidates preparing for KCET exam must check the syllabus from the official website. The syllabus comprises two parts - Physics, Chemistry and Mathematics. With the help syllabus PDF candidates can check the important topics and chapters asked in the exam. Along with the syllabus, candidates must also check previous year question papers for their effective preparations. Applicants can also refer to the books to prepare for KCET exam for better time management. Candidates can refer to tables given below to check the syllabus.

KCET Syllabus For Physics

First Year PUC Syllabus for KCET	Second Year PUC Syllabus for KCET
Physical World	Electric Charges And Fields
Units And Measurements	Electrostatic Potential And Capacitance
Motion In A Straight Line	Current Electricity
Motion In A Plane	Moving Charges And Magnetism
Laws Of Motion	Magnetism And Matter
Work, Energy & Power	Electromagnetic Induction And Alternating Current
Systems Of Particles And Rotational Motion	Electromagnetic Waves
Gravitation	Ray Optics And Optical Instruments
Mechanical Properties Of Solids	Wave Optics
Mechanical Properties Of Fluids	Dual Nature Of Radiation And Matter
Thermal Properties Of Matter	Atoms And Nuclei
Thermodynamics, Kinetic Theory	Semiconductor Electronics
Oscillations , Waves	Communication Systems

KCET Syllabus For Chemistry

First Year PUC Syllabus for KCET	Second Year PUC Syllabus for KCET
Some Basic Concepts Of Chemistry Structure Of Atom	Solid State
Classification Of Elements And Periodicity In Properties	Solutions
Chemical Bonding And Molecular Structure	Electrochemistry
States Of Matter Gases And Liquids	Chemical Kinetics, Surface Chemistry
Thermodynamics	P-block Elements
Equilibrium	D And F Block Elements
Redox Reactions	Coordination Compounds
Hydrogen	Haloalkanes And Haloarenes
S- Block Elements	Phenols And Ethers
Some P- Block Elements	Aldehydes, Ketones And Carboxylic Acids
Organic Chemistry- Some Basic Principles & Techniques	Organic Compounds Containing Nitrogen
Hydrocarbons	Biomolecules

KCET Syllabus For Mathematics

First Year PUC Syllabus for KCET	Second Year PUC Syllabus for KCET
Sets, Relations & Functions	Relations & Functions
Trigonometric Functions	Inverse Trigonometric Functions
Principle Of Mathematical Induction	Matrices,determinants
Complex Numbers And Quadratic Equations, Linear Inequalities	Continuity And Differentiability
Permutations And Combination	Application Of Derivatives
Sequence & Series	Integrals,Application Of Integrals

Straight Lines	Differential Equations
Introduction To 3D-geometry	Vector Algebra
Limits & Derivatives	Three Dimensional Geometry
Statistics	Linear Programming
Probability	Probability



KCET Exam Pattern



Karnataka Examination Authority (KEA) mentions the exam pattern in the official notification. For the ease of the students, the exam pattern is compiled in the table given below. With the help of exam pattern, candidates can check the number of questions asked in the exam, marking scheme, number of sections and other.

Particulars	Details
Examination Mode	Online
Number of Sessions	Session 1- Mathematics Session 2- Physics Session 3- Chemistry
Medium of Language	English or Kannada
Exam Duration	1 hour 20 minutes for each session
Question Type	Objective (MCQs - Multiple Choice Questions)
Total Number of Questions (Including all the sessions)	180 Questions

Number of Questions per Subject	Mathematics- 60 Questions Physics- 60 Questions Chemistry- 60 Questions
Marking Scheme	1 mark will be allotted for each correct answer. There is no negative marking in the exam.



Best Books For KCET Preparation



Karnataka Examination Authority (KEA) mentions the exam pattern in the official notification. For the ease of the students, the exam pattern is compiled in the table given below. With the help of exam pattern, candidates can check the number of questions asked in the exam, marking scheme, number of sections and other.

Section	Books
Physics	NCERT books of Class 11 and 12 for Physics
	Physics for Karnataka CET and COMEDK
	Physics for 1st Year PUC by AS Govind
	Physics for Karnataka CET and COMEDK by K. L. Gamber and K. L. Gogia
	Fundamentals of Physics by S Chand
	Pradeep's Fundamental Physics (Class 11 and 12)
Chemistry	NCERT books of Class 11 and 12 for Chemistry
	Modern's Abe of Chemistry, Part 1 and part 2 by S.P.Jauhar
	Chemistry for 1st Year PUC by Prof. Somashekara Prasad
	Pradeep's New Course Chemistry

Mathematics	NCERT books of Class 11 and 12 for Mathematics
	CET by Bosco
	MCQ by Asit Das GuptaMathematics by Dinesh
	Mathematics for 1st Year PUC BY Dr. PG Umarani