

# CAREERS 360

KNOW  
ALL ABOUT  
KEAM





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## ABOUT KEAM

KEAM or Kerala Engineering Agriculture Medical Entrance Examination is conducted by Commissioner for Entrance Examinations (CEE), Kerala Government for admissions to undergraduate engineering programmes across various government colleges, government sponsored self-financing colleges and private self-financing colleges in the state of Kerala. KEAM is held in the month of April every year. Candidates are selected on the basis of merit marks obtained in KEAM and the marks obtained in class XII or equivalent in Mathematics, Physics and Chemistry in the ratio of 50:50. Those who qualify this entrance exam, are then given admissions to over 56,000 engineering seats in the state colleges.



## KEAM ELIGIBILITY CRITERIA

### **Nativity:**

Applicants who are desirous to apply should be Indian citizens. Candidates of Indian Origin (PIO)/Overseas Citizen of India (OCI) Card Holders will be considered as equally eligible as the Indian citizens for the purpose of admission. Candidates seeking admission will be categorised as Keralite, Non-Keralite Category I (NK I) and Non-Keralite Category II (NK II).

Applicants are specified as Keralites and Non-Keralites as follows:

### **Keralites:**

- Applicants with Kerala as their origin are considered as a Keralite only for the purpose of eligibility for admission.
- Children of All India Service (AIS) officers (Non-Keralites) posted under Kerala cadre fall in this category. As a token of proof, these children are required to produce a certificate from the competent authority, showing the proof of their parents' service in Kerala Cadre.

### **Non-Keralite Category -I (NK I):**

Applicants, who are not of Kerala origin but fulfills any of the below mentioned conditions, will be considered as 'Non-Keralite Category -I'(NK I)

- A candidate, who has been residing in Kerala for minimum 5 years within the period of 12 years of study and is a non-keralite.



- A non-Keralite applicant, who has studied in Kerala from Class VIII to XII.
- Students having studied in XII in Kerala with non-Keralite parents and whose parents are Government of India/ Defence Services employees, posted in Kerala.
- Applicants, who have studied 10+2 in the state of Kerala with non-Keralite parents serving/served Government of Kerala for atleast 2 years, including the period of study of the qualifying exam.

### Non-Keralite Category-II (NK II):

- If a candidate doesn't belong to 'Keralite' or 'Non-Keralite Category-I', then he/she will come in the category of 'Non-Keralite Category-II'.
- Candidates falling in this category are eligible for admission to Management quota seats in engineering courses in Government Controlled Self-financing Colleges.

### Academic Eligibility for KEAM:

- Applicants are required to have passed the HSC Exam of Kerala or equivalent from a recognized board.
- They are required to have scored a minimum of 50% marks in Mathematics and 50% aggregate in Mathematics, Physics and Chemistry together.
- Applicants having passed Higher Secondary Examination in the state of Kerala or Examinations considered equivalent thereto, with 45% marks in Mathematics separately and 45% as an aggregate of Mathematics, Physics and Chemistry put together, will be considered eligible for admission under Management Quota in Private Self Financing Engineering Colleges.



## KEAM IMPORTANT DATES

- Availability of KEAM Application Form: 1<sup>st</sup> week of February
- Last Date for KEAM Online Application: 1<sup>st</sup> week of March
- Download of KEAM Admit Card: Starts from 3<sup>rd</sup> week of April
- KEAM Exam Paper 1: (Physics & Chemistry): 4<sup>th</sup> week of April
- KEAM Exam Paper 2 (Mathematics): 4<sup>th</sup> week of April
- KEAM Result: 3<sup>rd</sup> week of May
- Announcement of Rank List: 2<sup>nd</sup> week of June
- KEAM Counselling: Starts from 3<sup>rd</sup> week of June



## KEAM APPLICATION FORM

The Application Form of KEAM is available from 1<sup>st</sup> week of February onwards and candidates can generally apply by 1<sup>st</sup> week of March. Application forms are released in online mode only. Candidates, who wish to take admission in engineering colleges of Kerala, have to first fill in the Application Form of KEAM. The complete procedure of filling and submitting KEAM Application Form is given below:

### 1. Registration:

Registration is a one-time step for candidates. Candidates must fill in the following details at the time of registration:

- Name of the Candidate (according to the SSLC Certificate)
- Date of birth (as in Class X Certificate or Date of Birth Certificate)
- Email id, which should be valid till the admission time
- Mobile number: 10 digits, avoid adding 0 or 91 or any other prefix
- Once registered successfully, a page confirming the registration for KEAM Registration will be displayed. Details of the candidates can be edited using the “EDIT” option or they can confirm to register for KEAM

After registration, A unique KEAM Application Number will be generated. Applicants are requested to keep it safe for future requirement along with their chosen password.



### KEAM Password Specifications:

- KEAM Password should have atleast 8 characters.
- The Password should consist at least one alphabet [a to z or A to Z].-admit-card
- The KEAM Password should also include one number atleast [0 to 9].
- A minimum of one symbol [! @ # \$ % ^ & \*] is also required in the password.

### 2. Login:

Applicants are required to login. Only through login, they can proceed ahead to all the stages of KEAM Application Form. In the next step after login, Applicants will be directed to their page. At this page, they can do the following:

- Fill-up Application
- View Application
- Payment of Application Fee (will be activated only after final submission)
- Change Password
- Print Application (will be available only after Payment of KEAM Application Fees)
- Download Application Form

### 3. Fill KEAM Online Application Form:

- After logging in, candidates have to fill in all the items in the KEAM Online Application Form, for example, contact details, educational qualifications, photograph, etc. as specified.
- Candidates are required to fill in the examination course and center details.
- They can login, view and modify the details provided.

### Details to fill in KEAM Application form:

- Course
- Exam Centre
- Personal Details:
  - Name
  - Date of Birth
  - Gender
  - Citizenship
  - State of Permanent Residence
  - Parent/Guardian Details
  - Religion & Caste
  - Permanent Address
  - Contact Details
- Academic Details
- Qualifying Exam
- Subjects studied for Higher Secondary/Equivalent
- exam



- Studied Sanskrit in Plus Two Level
- Communal Reservation
- Special Reservation
- Statistics
- Declaration by candidate

#### 4. Final Submission of KEAM Online Application Form:

It is important that candidates carefully check if all information given by them is correct. For any changes, editing can be done at this level before final submission.

The next step is clicking 'final submission' wherein applicants submit the final KEAM Application Form.

Note: Final submission doesn't allow any editing or change in the KEAM Application Form further.

#### 5. Application Fee Payment for KEAM:

General Category Candidates: Rs.700

SC/ST Candidates: Rs.300

Candidates, who wish to apply for Dubai Centre, will have to pay additional Rs.12,000 for KEAM Application Fee.

Note: ST Applicants whose family income is below Rs.40,000 annually are exempted from paying application fee in lieu of providing caste and income certificates.

#### Payment Mode for KEAM Application Fee:

Applicants can pay KEAM application fee via online mode only.

#### 6. Print KEAM Application Form:

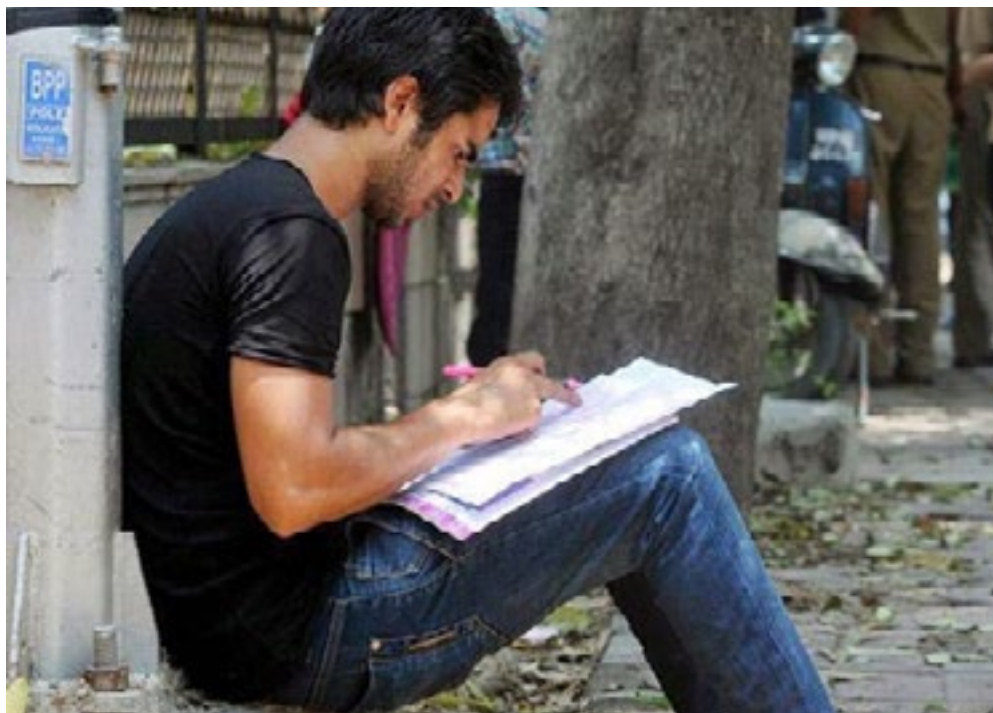
Candidates must keep print out of KEAM Online Application Form. It is required to prepare Course Certificate and Nativity Certificate in the prescribed format.

Note: It is advisable that applicants keep a copy of the printed KEAM Application Form for future reference.

#### Important instructions:

Affixed photograph size must be 3.5 cm X 4.5 cm. Photograph uploaded on the online application is required to be duly attested by Head of the Institution where the applicant studied last or by a Gazetted Officer.

Wherever required/specified on the printout of the application, the applicant and parent should provide their signatures. The applicant is also required to affix the left hand thumb impression in the space provided for it in the printout of the application.



## KEAM SYLLABUS

### Paper-1: Physics Syllabus

- Introduction and Measurement
- Description of motion in one dimension
- Description of motion in two and three dimensions
- Laws of motion
- Work, energy and power
- Motion of system of particles and rigid body rotation
- Gravitation
- Mechanics of solids and fluids
- Heat and thermodynamics
- Oscillations
- Waves-admit-card
- Electrostatics
- Current electricity
- Magnetic effect of current and magnetism

- Electromagnetic induction and alternating current
- Electromagnetic waves
- Optics
- Dual nature of matter and radiations
- Atomic nucleus
- Solids and semiconductor devices
- Principles of communications

### Paper-1: Chemistry Syllabus

- Basic concepts and atomic structure
- Bonding and molecular structure
- States of matter
- Periodic properties of elements and hydrogen
- S-block elements and principles of metallurgy
- P-block elements
- D-block and f-block elements
- Thermodynamics
- Chemical equilibrium



- Solutions
- Redox reactions and electrochemistry
- Chemical kinetics
- Surface chemistry
- Coordination compounds and organometallics
- Basic principles, purification and characterization of
  - organic compounds
  - Hydrocarbons
  - Organic reaction mechanism
  - Stereochemistry
  - Organic compounds with functional groups containing halogens
  - Organic compounds with functional groups containing oxygen
  - Organic compounds with functional groups containing nitrogen
  - Polymers and biomolecules
- Environmental chemistry and chemistry in everyday life
- Trigonometric functions and Inverse Trigonometric functions
- Conic sections
- Three Dimensional Geometry
- Cartesian System of Rectangular Coordinates
- Lines and Family of lines
- Circles and Family of circles
- Vectors
- Statistics and probability
- Definite Integrals
- Application of Derivatives
- Functions, Limits and continuity
- Differential Equations
- Differentiation
- Indefinite Integrals

## Paper-2: Mathematics Syllabus

- Linear Inequations
- Sequences and Series
- Complex Numbers
- Quadratic Equations
- Sets, Relations And Functions
- Permutations, Combinations, Binomial Theorem and Mathematical Induction
- Mathematical Logic and Boolean Algebra
- Matrices and Determinants



## KEAM EXAM PATTERN

Papers	Subjects	Number of Question	Marks Per question	Marks	Time Allotted
Paper I	Physics & Chemistry	120	4	$120 \times 4 = 480$	2 Hours 30 minutes
Paper II	Mathematics	120	4	$120 \times 4 = 480$	2 Hours 30 minutes
<b>Total</b>		<b>240</b>		<b>960</b>	

### Guidelines for KEAM Question Paper in the Exam Hall:

- It is advised that the students should check the KEAM roll number and booklet version number.
- If there is any mismatch between KEAM Roll Number and the Booklet Version as mentioned above, then the candidate should get the booklet replaced at the earliest.
- If the applicants find that KEAM Question Booklet is without a serial number, then they must get it replaced by a new Question Booklet with the same Version Number.



## KEAM ADMIT CARD

KEAM Admit Card is available for download in the fourth week of April. Admit Card of KEAM will be issued by CEE Kerala and will not be delivered by post in any case. All the students appearing for KEAM are required to carry a valid Hall Ticket to examination hall for verification and to prove their authentic identity. In order to download their Admit Card/Hall Ticket, candidates are required to use their KEAM Application number and date of birth. KEAM Admit Card needs to be kept safe even after the exam is over, as it will be required during the time of counselling. Candidates are required to produce the KEAM Admit Card in the examination hall when asked by the invigilator. It's an important document, and no candidate will be allowed to sit in the exam without any valid KEAM Admit Card.

### Details about KEAM Admit Card:

- Candidates are required to enter their KEAM Application Number and Date of Birth in order to download their Admit Card.
- Applicants shall carry a print out of their KEAM Hall Ticket to the examination hall on exam day.
- Help desks and facilitation centres will be set up across Kerala. Candidates can also download and take printouts of their admit card from these centres.
- KEAM Admit Card will carry individual details of the applicant, exam centre, schedule of the exam, etc.
- Only candidates, whose KEAM Application Form has been accepted, will be able to download the admission ticket.
- Applicants are strictly advised to keep their admit card safe until the exam process is completed.



## KEAM COUNSELLING

KEAM Counselling is conducted in the month of June for admissions to undergraduate engineering courses in colleges across Kerala. The Counselling Procedure for KEAM involves document verification and seat allotment for the KEAM qualified candidates who have registered for the same.

Admissions through KEAM Counselling is given to undergraduate engineering aspirants for a total of over 56,000 seats in engineering colleges in the state of Kerala (Including agricultural engineering seats, food engineering seats and Dairy science and technology seats). For architecture, the total available seats are over 1,000.

### B. Tech course

Type of Institute	No. of Colleges	No. of Seats	CEE Allotted Seats
Government/ Aided engineering colleges	12	4733	4402
Engineering colleges under Kerala Agricultural University and Kerala Veterinary & Animal Sciences University	2	119	99



Type of Institute	No. of Colleges	No. of Seats	CEE Allotted Seats
Government controlled engineering colleges	24	7155	6125
Private self-financing engineering colleges	119	44400	22200
<b>TOTAL</b>	<b>157</b>	<b>56407</b>	<b>32822</b>

**B.Arch Course**

Type of Institute	No. of Colleges	No. of Seats	CEE Allotted Seats
Government/ Aided colleges	4	200	189
Private self-financing colleges	19	840	420
<b>TOTAL</b>	<b>23</b>	<b>1040</b>	<b>609</b>