# PROSPECTUS 

Kerala<br>Engineering<br>Agriculture<br>Medical<br>Entrance Examinations

## Admission to the courses

ENGINEERING, ARCHITECTURE, MBBS, BDS,
AYURVEDA, HOMOEO, SIDDHA, UNANI, AGRICULTURE, FORESTRY, VETERINARY \& FISHERIES

OFFICE OF THE
COMMISSIONER FOR ENTRANCE EXAMINATIONS
FIFTH FLOOR, HOUSING BOARD BUILDINGS, SANTHI NAGAR
THIRUVANANTHAPURAM-695001
Email : ceekinfogceekerala.govin. Website : www.cee-kerala.org
Phone: 0471-2332120, 2338487. Fax : 0471-2337228.

Online Application at www. cee.kerala.gov.in

7)

Z Send to CEE

GOVERNMENT OF KERALA

# PROSPECTUS <br> FOR ADMISSION TO PROFESSIONAL DEGREE COURSES 

[MEDICAL, AGRICULTURE, VETERINARY, FISHERIES, ENGINEERING \& ARCHITECTURE COURSES]

## 2016

(Approved vide G.O (MS) No. 683/ 2015/ H.Edn. dated, Thiruvananthapuram, 11.12.2015)

For Online Submission of Application visit: www.cee.kerala.gov.in

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## KEAM - 2016

## INFORMATION AT A GLANCE

1. Sale of Security Cards along with Prospectus through selected Post Offices
2. Online Application submission
3. Last date for sale of Security Cards
4. Last date for submission of Online Application
5. Last date for receipt of Online Application Printout along with supporting documents
6. Downloading Online Admit Cards
: From 02.01. 2016 (Saturday)
: From 03.01. 2016 (Sunday)
: 29.01.2016 (Friday)
: 29.01.2016, 5 pm (Friday)
: 30.01.2016 (Saturday)
7. Date \& Time of Entrance Examination:

| Engineering | : | Physics \& Chemistry (Paper-I) |
| :--- | :--- | :--- |
| Mathematics (Paper-II) |  |  |
| Medical | $:$ | Chemistry \& Physics (Paper-I) <br>  |
| Biology (Paper-II) |  |  |

8. Venue of Examination
9. Time Schedule for the Examination (IST)
(a) Entry to the Examination Hall
(b) Distribution of Question Booklet
(c) Opening of the Question Booklet and Commencement of Examination
(d) Latest entry to the Examination Hall
(e) Conclusion of Examination
10. Materials permitted in the examination hall
11. Rough work
: From 28.03. 2016 (Monday)

| $:$ | $25.04 .2016,10 \mathrm{am}$ to 12.30 pm |
| :--- | :--- |
| $:$ | $26.04 .2016,10 \mathrm{am}$ to 12.30 pm |
| $:$ | $27.04 .2016,10 \mathrm{am}$ to 12.30 pm |
| $:$ | $28.04 .2016,10 \mathrm{am}$ to 12.30 pm |

: As indicated in the Admit Card
: Engg P-I, P-II \& Med P-I, P-II
$\begin{array}{ll}: & 9.30 \mathrm{am} \\ : & 9.55 \mathrm{am}\end{array}$
10.00 am
: $\quad 10.30 \mathrm{am}$
12.30 pm
: Admit Card, Card Board/ Clip Board, Ball-Point pens (with Black or Blue ink only)
: All rough work are to be done in the Question Booklet only. The candidate shall not do any rough work or put Stray Mark(s) on the OMR answer sheet.
12. Declaration of Results:

Medical : On or before 25.05.2016
Engineering : On or before 25.05.2016
Engineering Rank list (After marks integration) : On or before 25.06.2016
13. Centralised Allotment Process (CAP-2016)
: See Clause 11
14. Certificates/ documents to be produced
at the time of admission
(a) Admit Card issued by CEE.
(b) Certificate to prove Date of Birth.
(c) Original Mark List to prove academic eligibility.
(d) Pass Certificate (if obtained).
(e) Allotment letter issued by the CEE.
(f) Any other documents as mentioned in Clause 11.7.1

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OFFICE OF THE COMMISSIONER FOR ENTRANCE EXAMINATIONS
\(5{ }^{\text {th }}\) FLOOR, HOUSING BOARD BUILDINGS, SANTHI NAGAR THIRUVANANTHAPURAM - 695001
Phone: 0471-2332120, 2338487
www.cee-kerala. org
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## IMPORTANT INFORMATION

1. Candidate should apply for KEAM-2016 online and send a printout to the CEE on or before the last date.
2. Online submission of Application may be made by accessing CEE website - www.cee.kerala.gov.in
3. Copy of the printout of the Application form must be retained for future reference.
4. Applicant should ensure the following before sending the printout of the application form:
i. The applicant and parent/ guardian have signed the form at the specified space.
ii. All certificates furnished are properly filled in and signed by the competent authority and affixed office seal at specified place.
iii. The photograph uploaded online and the photograph pasted in the printout of application form should be identical and properly attested by Head of the Institution or Gazetted Officer of Government.
iv. The applicant should select the course/ courses which he/ she desires to study while applying online.
v. The candidate should maintain confidentiality of the key number and keep it in safe custody till the end of allotment process.
vi. Candidate should affix the left hand thumb impression in the space provided in the printout of the application.
5. No memo will be sent by post from this office in the case of defective applications. The defects, if any, which will be displayed on the website while downloading the admit card should be rectified within the specified period.
6. Candidates should send only one application for all the courses in KEAM 2016.
7. Candidates except SC/ ST/ OEC category should submit income certificate also along with the printout of application for availing fee concession/ scholarship.
8. Online Option Confirmation is mandatory for each phase of allotment (Refer to Clause 11.6.4)

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## 1. INTRODUCTION

1.1 Prospectus for Admission to Professional Degree Courses 2016, which has been approved by the Government of Kerala, is published herewith. It contains general information and rules relating to the Entrance Examinations for Admission to Professional Degree Courses 2016, and other connected matters. Candidates are required to go through the Prospectus carefully and acquaint themselves with all the relevant information relating to the examinations/ allotments. Candidates are also requested to visit the official website of the Commissioner for Entrance Examinations 'www.cee-kerala.org' regularly for notifications and announcements.
1.2 (a) The prospectus issued in previous years is not valid for the year 2016.
(b) The English Version of the Prospectus shall only be considered as authentic, in the case of dispute in any of the Clauses of the Prospectus for admission to Professional Degree Courses, 2016 (KEAM-2016).
1.3 This prospectus sets out the rules and regulations for selection and admission to the following professional degree courses conducted by the various authorities within the State of Kerala.

### 1.3.1 Engineering Courses:

Bachelor of Technology [(B.Tech.)includes all Courses listed in Annexure II (1)(b)]
B.Tech. (Agricultural Engineering) [B.Tech. (Agri. Engg.)]
B. Tech. (Dairy Science \& Technology) [B.Tech. (D. Sc. \& Tech.)]
B. Tech. (Food Engineering) [B.Tech. (Food Engg.)]

### 1.3.2 Architecture Course :

Bachelor of Architecture (B. Arch.)

### 1.3.3 Medical Courses:

Bachelor of Medicine and Bachelor of Surgery (MBBS)
Bachelor of Dental Surgery (BDS)
Bachelor of Ayurvedic Medicine and Surgery (BAMS)
Bachelor of Siddha Medicine and Surgery (BSMS)
Bachelor of Homoeopathic Medicine and Surgery (BHMS)
Bachelor of Unani Medicine and Surgery (BUMS)
1.3.4 Agriculture \& Forestry Courses:

Bachelor of Science-Agriculture [BSc.(Hons.) Agri.]
Bachelor of Science-Forestry [BSc.(Hons.) Forestry]
1.3.5 Veterinary Course :

Bachelor of Veterinary Science \& Animal Husbandry (BVSc. \& AH)
1.3.6 Fisheries Course :

Bachelor of Fisheries Science (BFSc.)
1.4 a) Admission to Engineering courses shall be regulated on the basis of merit as assessed by giving equal weightage of 50:50 to the marks obtained in the Entrance Examination for Engineering (Paper I \& Paper II put together), and the grade/marks obtained for Mathematics, Physics and Chemistry put together in the final year of the qualifying examination, after effecting the standardization procedure as described in Clause 9.7.4(b), for computing the Index mark out of 600. In case, the candidate has not studied Chemistry, the marks obtained in Computer Science shall be considered. In case, the candidate has not studied Chemistry and Computer Science, the marks obtained in Biotechnology shall be considered. In case, the candidate has not studied Chemistry, Computer Science and Biotechnology, the marks obtained in Biology shall be considered. The marks as shown in the mark list obtained from the Board of Examination of respective Higher Secondary Board shall be considered for academic eligibility.
b) For admissions to the Architecture course*, the merit as assessed by giving equal weightage to the marks obtained in the 'National Aptitude Test in Architecture' [NATA], conducted by the National Institute of Advanced Studies in Architecture (NIASA), and the grade/ marks in the qualifying examination will be the criterion. [*As per directives of the Council of Architecture, India.]
c) Admission to Medical courses, Agriculture, Veterinary and Fisheries courses are regulated on the basis of merit as assessed in the Medical Entrance Examination conducted by the CEE.
1.5 The Rank lists shall include all candidates qualified in the Entrance Examinations conducted by the Commissioner for Entrance Examinations, Kerala, irrespective of their academic eligibility and category (For admission purposes refer clauses 6.2, 9.7.11(c), 11.4.6 and 11.7.2).
1.6 This Prospectus is subject to modification/ addition/ deletion, as may be deemed necessary by the Government.
1.7 Allotment of seats from the Rank Lists for all courses in Self-financing colleges will be made in accordance with the orders of the Hon'ble Supreme Court of India / Hon'ble High Court of Kerala or orders of the Govt. of Kerala/ Govt. of India/ as per the law in existence at the time of Centralised Allotment Process (CAP) and will be notified separately.

## 2. COURSES, INSTITUTIONS AND SEATS

### 2.1 Categorization of Seats in Government and Aided Institutions:

2.1.1 Government seats: Merit seats against which the Commissioner for Entrance Examinations makes allotment are called 'Government Seats'.
(a) Government seats are available in all the Govt. and Aided Colleges.
(b) The availability of Government seats in Self-financing Colleges run by institutions under Govt. control and Private Self-financing colleges will be notified separately. Those candidates who seek admission in Private Self-financing colleges are bound to accept the conditions stipulated in the agreement between Government and Self-financing College Management(s) and deemed to have accepted such conditions.
2.1.2 Management Seats: The seats set apart in the Aided institutions, to be filled up by the Managements concerned are called Management Seats.
2.2 Categorization of Seats in Self-Financing Institutions:

The categorization of seats in Self-financing Colleges run by institutions under Govt. control and other Private Self-financing colleges will be notified separately.
2.3 Engineering Courses:
2.3.1 The B.Tech. Degree courses affiliated to various Universities in Kerala, under the semester scheme of studies comprise eight semesters.
2.3.2 The B.Tech. (Agricultural Engineering) and the B.Tech. (Food Engineering) courses under the Kerala Agricultural University [KAU].
2.3.3 The B.Tech. (Dairy Science \& Technology) and B.Tech (Food Technology) courses under the Kerala Veterinary and Animal Sciences University [KVASU].
2.3.4 The list of Engineering Colleges and the courses offered are given in Annexure II (1)(a), $\mathbf{V I I}(\mathbf{1}), \mathbf{V I I}(\mathbf{2})$. The list is tentative and not complete. The final list will be published by the CEE, prior to commencement of the Centralised Allotment Process 2016 (CAP-2016).
2.4 Architecture Course: B.Arch. Degree course extends over 10 semesters including one semester for practical training and one semester for thesis work. (Refer to Annexure II (1)(a) for the Institutions offering the B.Arch. Course). The list is tentative and not complete. The final list will be published prior to the commencement of the CAP-2016.

## $2.5 \quad$ Medical Courses:

2.5.1 The Medical courses include MBBS, BDS, BAMS, BSMS, BHMS \& BUMS under the Kerala University of Health Sciences.
2.5.2 The list of institutions in which Medical courses are offered, the number of seats available, etc. are given in Annexure III (1), IV (1), V (1) \& VI (1). The list is tentative and not complete. The final list will be published prior to the commencement of CAP-2016.
2.6 Agriculture and Forestry Courses (Under Kerala Agricultural University): The list of colleges, the courses offered, the number of seats available, etc. are given in Annexure VII (1).
2.7 Veterinary Course (Under Kerala Veterinary \& Animal Sciences University): The list of Veterinary colleges, the number of seats available, etc. are given in Annexure VII (2).
2.8 Fisheries Course (Under Kerala University of Fisheries \& Ocean Studies): The list of Fisheries colleges, the number of seats available, etc. are given in Annexure VII (3).
2.9 Allotment and admission to all Colleges/ Courses under Engineering/ Architecture/ Medical/ Agriculture/ Veterinary/ Fisheries streams will be subject to the receipt of approval of the Central and State Regulatory Bodies, Universities and Government.
3. DURATION OF THE COURSES

| Course | Duration <br> (Years) | Compulsory rotating <br> internship |
| :--- | :---: | :---: |
| MBBS, BDS, BHMS, BAMS, BUMS | $41 / 2$ | 12 months programme |
| BSMS | 5 | 6 months |
| BSc. (Hons.) Agri., BFSc., BSc. (Hons.) <br> Forestry, B.Tech. (Agri. Engg.), B.Tech. <br> (D. Sc. \& Tech.), B.Tech. (Food Engg.), <br> B.Tech (Food Technology) | 4 | 1 semester* |
| BVSc. \& AH | $4(8$ Sem.) | 6 months |
| B.Tech. | $5(10$ Sem.) | 6 months* |
| B.Arch. |  |  |

*Included in Course Duration
4. RESERVATION OF SEATS FOR VARIOUS COURSES
4.1 Types of Reservation in Government/Aided/KAU/KVASU/KUFOS Colleges: Out of the total seats available for the various courses, seats will be reserved for different categories as given under Clauses 4.1.1 to 4.1.5
4.1.1 Reservation for All India Quota for MBBS/BDS Courses : Fifteen percent of the total sanctioned seats in MBBS/ BDS Courses in Govt. Medical/ Dental Colleges in the State are set apart for the allotment of the candidates by the Director General of Health Services, Government of India. [Refer Clause 4.1.11(a)]
4.1.2 Reservation for Nominees : These are the seats set apart for the nominees of the Government of India, Union Territories or other States for the various courses. [For details, refer Clauses 4.1.11 (b), 4.1.12, 4.1.13, 4.1.14]
4.1.3 Reservation for Persons with Disabilities : Leaving the seats set apart under Clauses 4.1.1 and 4.1.2 above, three percent of the seats available for the state for allotment from the Entrance rank lists, for all the courses in all the Government and Aided colleges are reserved for the candidates with disabilities. [For details, refer Clause 5.3]
4.1.4 Special Reservation : These are the seats reserved for certain specific categories, for different courses. [For details, refer Clause 5.2]
4.1.5 Mandatory Reservation : Leaving the seats set apart for All India Quota, Government of India Nominees, Special reservations, Persons with Disabilities and Management Quota, the remaining Government seats for each course in Govt./ Aided/ KAU/ KVASU/ KUFOS Colleges will be distributed as per the mandatory reservation principle as contemplated in G. O. (P) 208/ 66/ Edn. Dated 2.5.1966, G.O.(Ms)No.95/ 08/ SCSTDD Dated 06.10.2008, GO(Ms) No. 10/ 2014/ BCDD Dated 23.05. 2014 and as modified from time to time.
The percentage break-up of seats as per mandatory reservation is as follows:

| (A) |  | State Merit (SM) | $-60 \%$ |  |
| :--- | :--- | :--- | :--- | :--- |
| (B) |  | Socially and Educationally Backward Classes (SEBC) | $-30 \%$ |  |
|  | a. | Ezhava (EZ) | $-9 \%$ |  |
|  | b. | Muslim (MU) | $-8 \%$ |  |
|  | C. | Other Backward Hindu (BH) | $-3 \%$ | $-3 \%$ |
|  | d. | Latin Catholic and Anglo Indian (LA) | $-2 \%$ |  |
|  | e. | Dheevara and related communities (DV) | $-2 \%$ |  |
|  | f. | Viswakarma and related communities (VK) | $-1 \%$ |  |
|  | g. | Kusavan and related communities (KN) | $-1 \%$ |  |
|  | h. | Other Backward Christian (BX) | $-1 \%$ |  |
|  | i. | Kudumbi (KU) | $-10 \%$ |  |
| (C) |  | Scheduled Castes \& Scheduled Tribes | $-8 \%$ |  |
|  | a. | Scheduled Castes (SC) | $-2 \%$ |  |
|  | b. | Scheduled Tribes (ST) |  |  |
|  |  |  |  |  |

4.1.6 The total number of seats available for the different courses will be published prior to the commencement of CAP-2016.
4.1.7 Admission to all the Government seats except the seats reserved for All India Quota for MBBS/ BDS and Nominees will be made on the basis of respective rank lists/ inter-se merit as may be applicable.
4.1.8 The number of seats earmarked for various categories for the different courses in Government and Aided Colleges will be finalised before CAP-2016.
4.1.9 Reservation of seats for Engineering Courses [B.Tech.]: The number of seats reserved for Government of India Nominees, Reciprocal quota and Special reservation categories is given in Annexure II (2) (a).
4.1.10 Reservation of seats for B.Arch. Course : The number of seats reserved for Government of India Nominees and Special reservation categories is given in Annexure II (2)(a).
4.1.11 Reservation of seats for MBBS \& BDS Courses
(a) Reservation of seats under All India Quota:

The seats reserved under All India Quota for MBBS and BDS Courses in Government Medical/ Dental Colleges will be allotted by the Director General of Health Services, New Delhi, on the basis of the rank obtained in the All India Pre-Medical/Pre-Dental Entrance Examination conducted by the CBSE, New Delhi as per the directions contained in the Supreme Court J udgement dated 21.07.1986. Details of seats are given in Annexure III (2).
(b) Reservation of seats for Nominees:
(i) Nominees of the Government of India: The Government of India, subject to the eligibility conditions in clause 6 , will make Nominations to these seats. The distribution of seats under this category and other details in respect of MBBS/ BDS courses are available in Annexure III (2).
(ii) Nominees from Union Territory of Andaman \& Nicobar Islands: These seats are reserved for the candidates of Kerala origin settled in the Union Territory of Andaman and Nicobar Islands. Nominations to these seats will be made by the Administration of that Union Territory and the candidates must possess the requisite qualifications as provided under Clause 6. The distribution of seats is given in Annexure III (2).
(iii) Nominees from Lakshadeep: Seats are reserved for the candidates of Kerala origin settled in Lakshadeep. The candidates should be sponsored by the Administration of that Union Territory and must possess the requisite qualifications as per Clause 6. The distribution of seats is given in Annexure III (2).
(iv) Nominee from Jammu \& Kashmir: One seat for MBBS will be reserved in a Govt. Medical College (by rotation every year in the order TVM, ALP, KTM, TCM, KKM, MLP, CMC and IDM) for a nominee from Jammu \& Kashmir. Candidate to this seat should be sponsored by the Government of Jammu and Kashmir through the Higher Education Secretary of the State. This year, the seat will be reserved in Government Medical College, Thrissur [See Annexure III(2)].
Admission to the seats under 4.1.11(b)(i) to 4.1.11(b)(iv) above should be completed by the admitting authority by $\mathbf{2 6 . 0 9 . 2 0 1 6}$. The Director of Medical Education will inform the CEE, through Government of Kerala, the un-availed seats in these categories on 27.09.2016 itself. Such seats will be reverted to the mandatory quota.
4.1.12 Reservation of seats for BHMS Course : The number of seats reserved under nominees and special reservation categories are given in Annexure IV (2).
4.1.13 Reservation of seats for BAMS Course : The number of seats reserved under nominees and special reservation categories are given in Annexure V (2).
4.1.14 Reservation of seats for Courses under the Kerala Agricultural University : [BSc. (Hons.) Agri., BSc. (Hons.) Forestry, B.Tech. (Agri. Engg.), B.Tech. (Food Engg.)], Kerala Veterinary \& Animal Sciences University : [BVSc \& AH, B.Tech. (DSc. \& Tech.) and B. Tech (Food Technology)], Kerala University of Fisheries \& Ocean Studies: BFSc.
(a) The number of seats reserved for the various special reservation categories is given in Annexure VII (4).
(b) The seats available for Agriculture, Veterinary and Fisheries courses in Annexure VII (4) will be filled only with the concerned category of candidates. If students are not available in the
respective category, the seats will be filled from the General quota. (Also refer to Clause 5.2.15)
(c) One seat is reserved for Jewish Community, for one of the courses on rotation basis in the order of BSc. (Hons.) Agri., BVSc \& AH, BSc. (Hons.) Forestry, B.Tech. (Agri. Engg.) and B. Tech. (DSc. \& Tech.). This year the seat is reserved for BVSc \& AH Course. One seat is reserved for J ewish Community, for BFSc Course.
4.2 Types of reservation in Self financing Colleges: The reservation of seats in Self-financing Colleges run by institutions under Govt. control and Private Self-financing colleges will be notified separately.

## 5. CLAIMS FOR RESERVATION AND CERTIFICATES TO BE PRODUCED

Note: (i) Claims for Special/Mandatory reservations must be made by a candidate at the time of submission of application with supporting documents as required. The claim has to be specified in the application in the appropriate places. Claims made after the submission of application will not be entertained even if supporting evidences are produced. The claims for Special and Mandatory reservation once made in the application cannot be altered by the candidate under any circumstance.
(ii) Only candidates belonging to 'Keralite' category as defined in Clause 6.1(i), are eligible for claiming seats under Mandatory quota in Government/Aided Colleges, and Special reservation quota unless otherwise specified in the prospectus. Details of reservation of seats, if any, in Self-financing colleges will be notified separately.
5.1 Reservation for Nominees: The categories of candidates who are entitled to the Central Government reserved seats for admission to MBBS/ BDS courses, and the authorities to whom applications are to be sent, are given in Annexure III (3). Categories of candidates who are entitled for reservation under nominees for BHMS \& BAMS courses are available in Annexure IV (2) \& V (2) respectively.

### 5.2 Claim for Special Reservation:

(i) Selection under special reservation categories for admission to MBBS and BDS courses

In the case of special reservation seats earmarked for MBBS \& BDS courses, which are filled on the basis of the rank in the Entrance Examination conducted by the CEE, only those candidates who have scored $50 \%$ marks in the Medical Entrance Examination for Paper I \& II put together with applicable relaxation for SC/ ST/ SEBC/ PD categories (as per directives of $\mathrm{MCl})$ and satisfying eligibility condition specified in Clause 6 will be considered for admission to MBBS/ BDS courses.
In the case of candidates whose admissions are governed by inter-se merit list, only those candidates who secure rank in the Medical Entrance Examination as stipulated in pre-para will be considered while preparing the inter-se merit list for admission to MBBS/ BDS courses.
(ii) All the candidates seeking admission under the 'Special Reservation Categories' will have to appear for the Entrance Examination conducted by the CEE and find place in the rank list. In case the admissions are based on inter-se merit list, only those candidates who have been ranked in the Entrance Examination will be considered for preparing the inter-se merit list.
(iii) Candidates should mention the item of reservation claimed in the relevant columns in the application and should be otherwise eligible as per Clause 6.
(iv) Candidates should attach original certificates in the prescribed format along with the printout of the application, as mentioned for each item, in support of the claim from Clauses 5.2.1 to 5.2.13.
(v) Selection to the seats mentioned from 5.2 .1 to 5.2 .14 will be made on the basis of rank in the respective rank list. Selection to the seats mentioned from 5.2 .15 to 5.2 .17 will be made on the basis of the inter-se merit of the candidates in the merit list prepared for the purpose. For special reservations mentioned from 5.2 .15 to 5.2 .17 , only those candidates who are included in the respective rank list will be considered for inclusion in the inter-se merit list.
(vi) In cases where candidates are to be allotted to the 'Special Reservation' seats of Engineering/ Architecture/ Medical/ Agriculture/ Veterinary/ Fisheries courses on the basis of inter-se merit list, the authorities concerned will forward to the Commissioner for Entrance Examinations, the preliminary merit list of candidates prepared on the basis of the proficiency of the candidate in the respective fields. Such preliminary proficiency list should reach the Office of the Commissioner for Entrance Examinations on or before $30^{\text {th }}$ April 2016. Lists received after this date will not be entertained under any circumstance and such seats will be merged to the Mandatory reservation quota.
(vii) Seats under Special Reservation in Self-financing colleges, if available, will be notified separately. Such seats, if any, will not be shifted to Government/ Aided colleges under any circumstance. The details of Special Reservation seats earmarked in Govt./Aided Colleges are given in Annexure II (2) (a), III (2), IV (2), V (2) and VII (4).
5.2.1 Ex-servicemen Quota (XS): Applicants to this category should invariably produce along with the printout of the application, a certificate in Annexure XIII (a) obtained not earlier than six months from the last date of application from the military authorities or State/ Zilla Sainik Welfare Officer to the effect that he/ she is the son/ daughter of ex-serviceman or an ex-serviceman himself / herself. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the certificate, the claim will not be considered.
5.2.2 Dependent of Defence Personnel Killed / Missing / Disabled in action (DK): This benefit will be available to one person only from the family concerned in respect of each defence person killed in action/missing in action/disabled either during war hostilities or in peace time circumstances of which are identical to activities during operational engagements. They should invariably produce a certificate in Annexure XIII (a) along with the printout of the application, obtained not earlier than six months from the last date of application from the Military Authorities/Zilla Sainik Welfare Officer to the effect that he/ she is the son/ daughter/ widow of the defence person who was killed in action or missing in action or disabled in action. In the case of disabled personnel, the certificate should specify that the concerned person was/ is in receipt of disability pension. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the certificate, the claim will not be considered.
If no suitable candidate under this category is available for the concession, as per the existing order/ rules, the seats reserved for them will be given to the son/ daughter/ widow of the defence personnel who died in harness (HR), if they are otherwise eligible as per Clause 6. They should produce certificate in Annexure XIII (a) along with the printout of the application obtained not earlier than six months from the last date of application from Military Authority/ Zilla Sainik Welfare Officer to the effect that the defence personnel had died while in service. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the certificate, the claim will not be considered.
If there are still no suitable candidates under this category, the seats reserved for the children/ widow of defence personnel killed in action/missing in action/disabled will be given to children of Serving Defence personnel or in their absence to ex-servicemen/ children of ex-servicemen.

Only one candidate from a family will be eligible for Special Reservation quota under Clauses 5.2.1 \& 5.2.2.
5.2.3 Serving Defence Personnel (SD): Seats are reserved for sons/ daughters of serving defence personnel from Kerala for admission to Engineering/Medical/Agricultural/ Veterinary Courses. Candidates seeking reservation under this category should produce a certificate in Annexure XIII (b) along with the printout of the application obtained not earlier than six months from the last date of application from the Officer Commanding to the effect that the candidate is the son/daughter of serving defence personnel, with details of the station where he/ she works at present. Certificate obtained for other purposes will not be considered.
5.2.4 CRPF (RP): Seats are reserved for sons/ daughters of personnel serving in Para Military Forces/ Dependent of Paramilitary Personnel Killed/ Missed/Disabled in Action including CRPF, BSF, CISF, ITBSF etc. Candidates seeking admission under this category should produce a certificate in Annexure XIII (b) along with the printout of the application obtained from the Officer Commanding under whom they are serving/ were serving to that effect. The certificate should have been obtained not earlier than six months from the last date for receipt of application in the Office of the Commissioner for Entrance Examinations. The purpose of issue should be shown clearly and the certificate issued for other purposes are not acceptable in any case.
Note:- Seats will be reserved for the candidates eligible for reservation under XS, DK, SD, RP, SP \& CC categories as defined in Clauses 5.2.1 to 5.2.4, 5.2.16 \& 5.2.17 above in Private Self Financing Engineering/ Architecture Colleges as listed in Annexure II (2) (b).
5.2.5 Jewish (JW) Quota (For MBBS/ BDS courses): One seat each will be reserved for Jewish community for admission to MBBS and BDS. In case candidates from the community become
unavailable, the seat will merge with the mandatory reservation quota. The selection will be on the basis of the rank obtained in the Medical Entrance Examination. The candidate claiming reservation under the Jewish community quota should obtain, in the prescribed format, a certificate from the Village Officer/ Tahsildar to the effect that he/ she belongs to ewish community. Such candidates need not produce the income certificate for claiming reservation under this quota. However such candidates desirous of being considered for any fee concession/ scholarship/ any other benefits, based on annual family income should produce Income Certificate from concerned Village Officer, along with the Printout of the application itself.
5.2.6 Degree holders in MBBS, BHMS/ Diploma holders in Homoeopathy (OA) (For BAMS course) : One seat in BAMS course will be reserved for the candidates having MBBS Degree/ DHMS/ BHMS Degree recognised by any one of the Universities in Kerala, subject to the eligibility conditions under clause 6. Admission to the course is based on the rank obtained in the Medical Entrance Examination of KEAM-2016. The candidates should produce attested copies of MBBS degree/ BHMS degree/ DHMS certificate, as the case may be, to prove eligibility. Copies of Internship certificate and registration certificate should also be produced in support of the claim along with the printout of the application. [Refer Annexure V(2)]
5.2.7 Degree / Diploma holders in Ayurveda (DA) (For MBBS course): Seven seats are reserved for Degree/ Diploma holders in Ayurveda recognized by any of the Universities in Kerala for MBBS course subject to the eligibility conditions as per Clause 6. Admission will be given to both Degree/ Diploma holders without discrimination, on the basis of the rank obtained in the Medical Entrance Examination. Candidates should produce copies of (a) Degree/ Diploma certificate, (b) Internship certificate, and (c) Registration certificate, in support of the claim along with the printout of the application. [Refer Annexure III (2)]
5.2.8 Degree/Diploma holders in Homoeopathy (DH) (For MBBS course): Four seats in the MBBS course are reserved for holders of Degree/ Diploma in Homoeopathy recognised by the Government under the schedule to the T.C. Medical Practitioners' Act, 1953 subject to the eligibility conditions in Clause 6. Admission will be given to both the Degree/ Diploma holders without discrimination, on the basis of the rank obtained in the Medical Entrance Examination. Candidates should produce copies of (a) Degree/Diploma certificate, (b) Internship certificate, and (c) Registration certificate in support of the claim, along with the printout of the application. [Refer Annexure III (2)]
Note: The candidates applying for the quota of seats specified under Clauses 5.2.6, 5.2.7 \& 5.2.8 should complete their internship before the last date of receipt of KEAM-2016 applications in the Office of the Commissioner for Entrance Examinations, Thiruvananthapuram.
5.2.9 Degree Holders in MBBS/BAMS/BVSc \& AH/ BSc (Hons) Agri/ BFSc/ BSc(Hons) Forestry (OH) (For BHMS Course): One seat in BHMS Course will be reserved for the candidates having MBBS/ BAMS/ BVSc. \& AH/ BSc. (Hon.) Agri./ BFSc./ BSc.(Hon.) Forestry Degree recognised by any of the Universities in Kerala. Admission will be given on the basis of Medical rank obtained in the Entrance Examination of KEAM-2016 and subjected to the eligibility conditions in Clause 6. Candidates should attach with the printout of the application, copy of the Degree certificate and if the degree has been taken from outside the State, an eligibility/ equivalency certificate of the degree from any of the Universities in Kerala, should also be attached with the printout of the application.
5.2.10(i) Nurse-Allopathy (NQ): One seat under this quota for MBBS course is reserved for Nurses (Allopathy) in regular service under Government of Kerala. Candidates should attach a Service Certificate in Annexure XIV from the Head of Office, stating that the candidate is a Regular Employee in the State Government Service. Admission will be given on the basis of Medical rank obtained in Entrance Examination of KEAM-2016 and subjected to the eligibility conditions in Clause 6. The candidate should also attach a Registration Certificate issued by the Kerala Nurses \& Midwives Council. The candidates who have undergone Nursing Course outside the State should obtain the Registration Certificate issued by the Nursing Council of respective State. The certificates should be attached along with the printout of the application.
(ii) Nurse/Pharmacist-Homoeopathy (NH): In the case of BHMS course one seat is reserved for Nurses/ Pharmacist(Homoeo) and such candidate should have passed the Higher Secondary or equivalent examination in addition to the Government recognised course in Nursing/ Pharmacy (Homoeo). Admission will be given on the basis of Medical rank obtained in the Entrance Examination of KEAM-2016. Candidate should attach a service certificate in

Annexure XIV obtained from the Head of the Office in Kerala stating that he/ she is a regular employee in Government service working as Nurse/ Pharmacist (Homoeo).
(iii) Nurse-Ayurveda (NY): In the case of BAMS course one seat is reserved for Nurses (Ayurveda) and such candidate should have passed the Higher Secondary or equivalent examination. Admission will be given on the basis of Medical rank obtained in the Entrance Examination of KEAM-2016. Candidate should attach a service certificate in Annexure XIV obtained from the Head of the Office in Kerala, stating that he/ she is a regular employee in Government service working as Nurse (Ayurveda).
5.2.11 Children of Agriculturists for BSc.(Hons.) Agri. and BVSc. \& AH Courses (CA): An agriculturist should be a person whose main source of income is derived from the agricultural sources including agricultural labour. The parent or guardian of the student shall not be an assessee of Income Tax. The non-agricultural income of the parents or guardian should not be more than Rs.12000/- per annum. The Agricultural income and nonagricultural income of the parent/ guardian of the applicant should specifically be mentioned in the income certificate issued by the competent authority not below the rank of Village Officer of the Revenue Department in the prescribed format in Annexure XVI along with the printout of the application for KEAM-2016.
5.2.12 Children of Farm Labourers of KAU for BSc.(Hons.) Agri., B.Sc (Hons) Forestry Courses (LG), BVSc\&AH course under KVASU (LV), BFSc course under KUFOS (LF): Candidates seeking reservation under the quota for children of farm labourers of Kerala Agricultural University/Kerala Veterinary and Animal Sciences University/Kerala University of Fisheries and Ocean Studies should furnish a certificate along with the printout of the application obtained from the Officer concerned in charge of the farm of the Kerala Agricultural University/ Kerala Veterinary and Animal Sciences University/ Kerala University of Fisheries and Ocean Studies to that effect. The seats under this quota in BSc. (Hons.) Agri. and B. Sc (Hons) Forestry Courses are reserved for Children of Farm Labourers of KAU. The seats under this quota in BVSc \& AH course is reserved for Children of Farm Labourers of KVASU. The seats under this quota in BFSc course is reserved for Children of Farm Labourers of KUFOS. Note: The term 'farm labourers' will mean permanent labourers only.
5.2.13 Children of Fishermen for BFSc. Course (CF): Fishermen are those whose profession is fishing and their main source of income is from fishing. Candidates seeking admission under the quota for children of fishermen should be son/ daughter/ dependent of a fisherman.
(i) The applicant under this quota should furnish a dependency certificate stating that he/ she is son/ daughter/ dependent of the fisherman and also to submit an income certificate stating that the annual family income of the applicant is not more than Rs. 6 lakhs. Both certificates have to be produced in the prescribed format in Annexure XVI which is to be submitted along with the printout of the application for KEAM-2016.
(ii) Dependants are the son/ daughter/brother/ sister of fishermen.
5.2.14 Scouts and Guides for Engineering Courses (SG): Two seats are reserved for Rashtrapathi Scouts and Guides for Engineering courses. Candidates seeking reservation under this quota should attach copy of the Rashtrapathi Guide Certificate signed by the President of India. In the absence of this Certificate, Specimen Certificate signed by the Director of Public Instructions (DPI), Kerala and the State Secretary, Kerala State Bharat Scouts and Guides, will be considered.
5.2 .15 (i) Village Level Workers (VL)/Agricultural Demonstrators (AD)/Farm Assistant (Agri.) (FA)/ Diploma Holders in Agricultural Science (DG) [For Agricultural courses only]: Candidates, who claim the seats reserved for Village Level Workers/ Agricultural Demonstrators/Farm Assistant (Agri.), should submit their applications to the Commissioner for Entrance Examinations, through their Heads of Offices with recommendation. They have to send a photocopy of the application with attested copies of all certificates to the Registrar, Kerala Agricultural University, Main Campus, Vellanikkara, Thrissur-680656 also. Candidates, who claim the seats reserved for Village Level Workers/ Agricultural Demonstrators/ Farm Assistant (Agri.) shall produce their relieving certificate on the date of admission.
Candidates who claim the seats reserved for Diploma holders in Agricultural Science (DG) shall send their application to the Commissioner for Entrance Examinations along with the attested copy of Diploma certificate in Agricultural Science. The allotment to the seats reserved for Diploma holders in Agricultural Science (DG) shall be based on the rank in the Medical Entrance Examination.
To claim the Seats for BSc.(Hons.) Agri. course reserved for Village Level Workers, Agricultural Demonstrators, Farm Assistants (Agri.), Diploma Holders in Agricultural Science, the candidates must take the Medical Entrance Examination.
(ii) Live Stock Inspectors (LS)/Farm Assistant (Vety.) (FV)/Dairy Farm Instructors (DF) [For Veterinary courses only]: Candidates, who claim the seats reserved for Live Stock Inspectors/ Farm Assistant (Vety)/ Dairy Farm Instructors should submit their applications to the Commissioner for Entrance Examinations, through their Heads of Offices with recommendation. They have to send a photocopy of the application with attested copies of all certificates to the Registrar, Kerala Veterinary \& Animal Sciences University, Pookot, Lakkidi P O, Wayanad-673 576 also. Such candidates shall produce their relieving certificate on the date of admission.
To claim (i) Seats for BVSc. \& AH reserved for Live Stock Assistants, Farm Assistant (Vety.) and (ii) Seats reserved for Dairy Farm Instructors of Dairy Development Department for B.Tech. (DSc. \& Tech.) and seat reserved for Live Stock Inspectors for B.Tech (Food Technology), the candidates must take the concerned Entrance Examination.
A selection committee constituted by the respective Universities will assign marks to the candidates referred under Clauses 5.2 .15 (i) [except Diploma Holders in Agricultural Science] and 5.2.15 (ii) out of 500, considering the academic merit (Higher Secondary $=200$ ) higher qualification (BSc. = 100, MSc. = 100) and length of service (100). The list of candidates under the respective categories along with the marks allotted to them as above will be prepared and sent to the Commissioner for Entrance Examinations to reach him on or before $30^{\text {th }}$ April 2016.
The marks out of 500, awarded to the candidates for academic merit will be added to the marks obtained by the respective candidates in the KEAM 2016 (provided they are ranked in the concerned Entrance Examination), computed out of 500 so that the candidates would be eligible for a maximum of 1000 marks. The merit list for each category except Diploma holders in Agricultural Science would be prepared on the basis of inter-se merit of the candidate computed as above.
Note :(i) Two seats are reserved for Livestock Inspector and one seat is reserved for Farm Assistant (Vety.) for BVSc. \& AH Course. If candidates are not available in any one of these categories during a year, the same will be allotted to the other category.
(ii) A total number of 20 seats are reserved for BSc.(Hons.) Agri. course as follows. Village Level Workers (2 seats), Agricultural Demonstrators (10 seats), Farm Assistants (Agri.) (2 seats) and Diploma Holders in Agriculture ( 6 seats).
If candidates are not available in any one of the categories listed under Note (ii), the seats that remain unfilled will be allotted to eligible candidates from other categories in the order Village Level Workers, Agricultural Demonstrators, Farm Assistant (Agri.) and Diploma Holders in Agricultural Science.
(iii) Two seats will be reserved for Dairy Farm Instructors of Dairy Development Department for B.Tech. (Dairy Science \& Technology) and one seat will be reserved for Live Stock Inspectors for B.Tech (Food Technology).
(iv) If candidates as per note (i), (ii) and (iii) are not available, the seats will be filled up from the General Quota.
5.2.16 Sports Quota (SP): Candidates who claim reservation under Sports Quota shall fulfil their eligibility based on the norms of Kerala State Sports Council appended in Annexure XVIII (ii) prior to submission of application, for the seats as prescribed in the Prospectus.
The candidate should forward the original application to the Commissioner for Entrance Examinations, and a photocopy of the application to the Secretary, Kerala State Sports Council, Thiruvananthapuram-695001. The Sports Council will allot marks to the candidates according to their proficiency in sports. The maximum marks for proficiency is 500. [Guidelines of the Sports Council for award of Marks for proficiency in Sports is given under Annexure XVIII (ii) of this Prospectus].
The Sports Council Authorities will collect the Roll Number from the candidates and furnish it in the proficiency mark list for sports. The mark list of candidates under 'Individual Events' and 'Team Events' should be prepared separately and forwarded to the Commissioner for Entrance Examinations so as to reach him on or before $30^{\text {th }}$ April 2016. In the case of candidates seeking admission to Medical/Agriculture/Veterinary/Fisheries courses, the marks out of 500 awarded to the candidates for proficiency in sports will be added to the marks obtained by the respective candidates in the Medical Entrance Examination (provided they are ranked in the Medical Entrance Examination), computed out of 500. In the case of candidates seeking admission to Engineering courses, the marks out of 500 awarded to the candidates for proficiency in sports will be added to the marks arrived at, for the preparation of Engineering rank list, computed out of 500. So, the candidates would be eligible for a maximum index mark of 1000 . The merit list of individual and team
events will be prepared on the basis of inter-se merit of the candidates computed as above and will be published separately.
At the time of preparation of the rank list under sports quota, if there is any tie in the total marks, it will be resolved by the same principle of resolution of tie for the preparation of Engineering/ Medical rank list, as the case may be, of the Entrance Examination, KEAM-2016.
The seats under Sports quota will be filled up by giving equal representation to both individual and team events. The principle adopted will be $1: 1$ which will be implemented by allotting seats alternatively between individual event and team event. The allotment will start with the event, whether individual or team, to which a candidate secures the highest index mark from among the candidates considered exclusively for Sports Quota reservation seats. This principle will be followed for allotment of seats in Engineering, Medical/ Agriculture/ Veterinary/ Fisheries courses. If there is any vacancy in the $50 \%$ seats reserved for individual events/team events, the seats shall be filled up by candidates from the other category.
5.2.17 NCC Quota (CC): The candidates seeking admission under the NCC quota should forward the original application to the Commissioner for Entrance Examinations, and a photocopy of the application to the Deputy Director General, NCC (Kerala), PB No.2212, Thiruvananthapuram$\underline{695010}$ through the respective NCC Unit Officers where the candidates have been enrolled as cadets, before the last date for submission of application. The seats under NCC Quota for admission to Professional Degree Courses are restricted only to the NCC Cadets who are studying within the State of Kerala.
The State level committee, on the basis of the norms approved by the Government, will award candidates, marks according to their proficiency in NCC. The maximum marks for proficiency will be 500. The NCC authorities will collect the Roll Number of the candidates in the Entrance Examinations from the respective candidates and furnish the Roll Numbers in the mark list. The Deputy Director General, NCC, will forward the list of candidates with their marks to the Commissioner for Entrance Examinations to reach him on or before $30^{\text {th }}$ April 2016.
In the case of candidates seeking admission to Medical/ Agriculture/ Veterinary/ Fisheries courses, the marks out of 500 awarded to the candidates for proficiency in NCC will be added to the marks obtained by the respective candidates in the Medical Entrance Examination (provided they are ranked in the Medical Entrance Examination), computed out of 500. In the case of candidates seeking admission to Engineering courses, the marks out of 500 awarded to the candidates for proficiency in NCC will be added to the marks arrived at, for the preparation of Engineering rank list, computed out of 500. In the case of Architecture course, the marks out of 500 awarded to the candidates for proficiency in NCC will be added to the marks considered for preparing the Architecture rank list computed out of 500 . So the candidates would be eligible for a maximum of 1000 marks. The merit list would be prepared on the basis of inter-se merit of the candidate computed as above.
At the time of preparation of the inter-se merit list under NCC Quota, if there is any tie in the total marks, it will be resolved by the same principle of resolution of tie for the preparation of Engineering Rank list, Medical Rank list or the Rank list as the case may be, of the Entrance Examination, KEAM-2016.

### 5.3 Reservation for Persons with Disabilities (PD):

Three percent of the seats available to the State for allotment from the State rank lists are reserved for candidates with disabilities for all courses in Govt./ Aided Colleges as stipulated in Section 39, Chapter VI of the Persons with Disabilities Act 1995. As per Clause 2 (t), Chapter I of the Act, 'Person with disability' means a person suffering from not less than $40 \%$ of any disability as certified by a medical authority. Generally, candidates who have a minimum of $40 \%$ disability alone will be eligible to apply for this quota. Candidates seeking admission to Medical Courses (except BHMS), will have to satisfy the eligibility criteria prescribed by the Medical Council of India for 'Persons with Disabilities'. Accordingly, (i) the 'Visually handicapped', 'Hearing disabled' and 'Locomotory disabled' involving upper limb are not eligible for admission to the Medical courses. (ii) Candidates with 'Locomotory disability' of lower limb between $50 \%$ and $70 \%$ would be allowed the benefit of reservation under the Disability Act for admission to the Medical courses. Blind (including colour blind), deaf and/ or dumb candidates shall not be eligible for admission to the BHMS course as per Central Council of Homoeopathy Guidelines.
As per the guidelines of Medical Council of India, for admission to MBBS course, candidates with 'Locomotory disability' of lower limbs between $50 \%$ and $70 \%$ would be allowed the benefit of reservation under the Disability Act. Unfilled seats in this quota for MBBS course
will be filled up by persons with Locomotory disability of lower limbs between $40 \%$ and $50 \%$ before they are included in the annual sanctioned seats for General category candidates.
For claiming reservation under this category for MBBS/ BDS/ BAMS/ BSMS/ BHMS/ BVSc. \& AH courses, a self attested copy of the certificate of disability from the District Medical Board certifying the percentage of degree of disability issued not earlier than 3 months prior to the last date of submission of application has to be attached with the printout of the application. This certificate will be considered for granting this benefit for other Medical courses, Engineering and Architecture also
However, candidates under this category, desirous of being considered for the courses BSc. (Hons.) Agri., BFSc. (Fisheries), Engineering and Architecture, need attach only an attested copy of the certificate of disability from the District Medical Board certifying the percentage of degree of disability issued not earlier than 12 months prior to the last date of submission of application, along with the printout of the application.

> No document/ certificate other than those mentioned above will be considered for determining disability. Based on the certificate produced along with the printout of the application, candidates will be provisionally included under the 'Persons with Disability' category.

The CEE will publish the merit list of such candidates, who have been included in the category. However, the inclusion in this rank list is strictly provisional.
A State Level Committee to be constituted by the Government under the Chairmanship of the Commissioner for Entrance Examinations consisting of medical experts in General Medicine, ENT, Neurology, Orthopaedic Surgery, Ophthalmology and Physical Medicine \& Rehabilitation will examine and assess the disability of the candidates who are provisionally included under this category. Necessary orders constituting the Committee will be issued by the Government in due course and the same will be notified. The State Level Committee will have powers to review the certificates issued by the District Medical Boards.
There will be special invitees representing Medical/ Agricultural/Veterinary/ Fisheries/ Engineering specialities to this Committee in addition to Medical Experts who will subsequently determine the suitability of a candidate, having minimum $40 \%$ of any disability, for a particular course.
Only those candidates who are having a minimum $40 \%$ of any disability and are found to be physically suitable by the Committee for the courses opted by the candidates will be chosen for a course as only the physically fit can undergo the rigors of a professional course. The recommendations of this State Level committee will be binding on the candidates. The selection of candidates under this category will be based on the merit in the Entrance Examination and physical suitability, and not on the basis of the degree of disability.
Note: However, candidates will have to score $* 45 \%$ marks in the Medical Entrance Examination to be considered for admission to MBBS Course (*As per directives of the MCI ) and $50 \%$ marks in the Medical Entrance Examination to be considered for the admission to BDS course.

### 5.4 Claims for Mandatory Reservation:

5.4.1 State Merit: The seats under the State Merit (SM) will be filled purely on merit (State-wide) basis irrespective of the category/ community to which the candidates belong.

### 5.4.2 Claim for communal reservation under the Socially and Educationally Backward Classes

 (SEBC) :Reservation to the Socially and Educationally Backward Classes will be in accordance with the provisions contained in G.O.(P)208/66/ Edn. dated 02.05.1966, G.O.(Ms) No.95/ 08/ SCSTDD dated 06.10.2008, GO(MS) No. 10/2014/BCDD dated: 23.05.2014, G.O.(P) No. 1/ 2015/ BCDD dated: 01.01.2015, GO(MS) No. 4/ 2015/ H.Edn. dated: 05.01.2015, GO(MS) No. 15/ 2015/ H.Edn. dated: 19.01.2015 and as amended from time to time and will be in accordance with the Orders of the Hon'ble Supreme Court of India/ Hon'ble High Court of Kerala or Orders of the Government of Kerala/ Government of India.
(a) Candidates belonging to Socially and Educationally Backward Classes as per G.O.(P) 208/ 66/ Edn. dated 02.05.1966, GO(MS) No. 10/ 2014/ BCDD dated: 23.05.2014, G.O.(P) No. 1/ 2015/ BCDD dated: 01.01.2015, GO(MS) No. 4/ 2015/ H.Edn. dated: 05.01.2015 and GO(MS) No. 15/ 2015/ H.Edn. dated: 19.01.2015 should produce a certificate to the extent that the candidate belongs to the community which is designated as a Socially and Educationally Backward Class and does not belong to the category of Creamy Layer, in the proforma given as Annexure V of the GO(P) No. 1/2015/ BCDD dated: 01.01.2015. The names of castes and communities under SEBC are given in Annexure XI. Only the claims of the candidates of
those communities that are included in the list as incorporated in the respective Annexure of the Prospectus 2016 will be considered. Claims by candidates belonging to other communities, which are not included in the Annexure, will be rejected even if certificates from the concerned Revenue Officers have been obtained and furnished along with the printout of the application.
(b) Candidates belonging to Ezhava, Muslim, Other Backward Hindus, Latin Catholic \& Anglo Indians, Dheevara and related communities, Viswakarma and related communities, Kusavan and related communities, Other Backward Christian and Kudumbi communities, claiming reservation under SEBC Quota should invariably produce Non-Creamy Layer certificate obtained from the Village Officer concerned. The above certificate should be obtained in the prescribed format along with the printout of the application itself.
(c) Reservation under SEBC for children of inter-caste married couples: Children of Intercaste married couple with either the father or mother belonging to a community included in SEBC list, or with father and mother belonging to different communities, both of which are included in the SEBC list, are eligible for reservation under SEBC. Such candidates should furnish a Non-Creamy Layer certificate specifying the community of the candidate from the Village Officer in the proforma available along with the printout of the application.
(d) Candidates who are children of Inter-Caste married couple of whom one is SC/ ST, will be eligible for educational and monetary benefits admissible to SC/ ST as per Para 2 (ii) of GO (MS) No. 25/ 2005/ SCSTDD dated 20.06.2005, if eligible for reservation under SEBC, will be granted the same, based on the Non-Creamy Layer Certificate and the inter-caste marriage certificate issued by Revenue officials and to be attached by them with the printout of the application.
(e) The candidature/ allotment/ admission of the candidates who furnish fake Non-Creamy Layer certificates is liable to be cancelled. Such candidates are also liable to be debarred from appearing for the Entrance Examination for a period extending upto two years.

### 5.4.3 Claim for reservation under Scheduled Castes/ Scheduled Tribes Quota:

(a) Candidates claiming reservation under Scheduled Castes/ Scheduled Tribes quota should obtain the caste/ community certificate from the Tahsildar concerned, in the proforma given in the application specifically meant for them. SC/ ST caste status of children, whose parents contracted Inter-caste marriage, will be subject to the orders/ clarification issued in GO(Ms) No. 25/ 2005/ SCSTDD dated: 20.06.2005, judgement dated 10.08.2005 of the Full Bench of the Hon'ble High Court of Kerala in WP(C) 2483/ 2005 and connected cases and GO (Ms) No. 109/ 2008/ SCSTDD dated 20.11.2008.
As per G.O.(MS)No.109/2008/SCSTDD, dated 20.11.2008, the children born of inter-caste married couple of which one of the parents is SC/ ST can claim the status of SC/ ST on proof of the conditions of acceptance, customary traits and tenets under which such children are brought up.
The competent authority issuing SC/ ST community certificate to children born of inter-caste married couple, of which one of the parents is SC/ ST, should ensure that the claimant is subjected to same social disabilities and also following the same customs and traditions and the community has accepted that person to its fold as such. The authority to issue caste certificate should also ensure that:
(i) Each case shall be examined individually in the light of the existing facts and circumstances.
(ii) The claimant has suffered disabilities - socially, economically and educationally.
(iii) The society has accepted the claimant to their original fold as one among them and is living in the same social tenet.
Christian converts who have subsequently embraced Hinduism should produce caste/ community certificate in the proforma given in the application. The following certificate should also be got recorded by the Revenue Official, below the certificate, "The certificate is issued after observing the guidelines issued in the Government Circular No. 18421/E2/ SCSTDD dated 15.12.1987".

> The names of castes and communities are given in Annexures VIII \& IX. Community Certificate from Tahsildar is to be obtained in the prescribed format along with the printout of the application itself.
(b) The applications for the reserved seats of Scheduled Castes/ Scheduled Tribes candidates which do not contain SC/ ST certificate (community certificate) from the Tahsildar in the prescribed format provided along with the printout of the application will not be considered
on any account for claiming community reservation against the seat reserved for SC/ ST candidates [vide G.O. (Ms) $31 / 90 /$ SCSTDD dated 25.05 .1990 ]. The community certificate should clearly specify that the candidate himself/ herself (not the father or mother) belongs to the Scheduled Castes/ Scheduled Tribes. The Community Certificates obtained as per G.O. (Ms) No.136/07/ RD, dated 27.04 .2007 will be accepted. The candidates who are reconverted to Hinduism from Christianity of Scheduled caste origin should produce community certificate from the Tahsildar concerned along with a copy of Gazette Notification regarding re-conversion.
(c) The claims for reservation under Scheduled Castes/ Scheduled Tribes quota will also be subject to verification and clearance by the Screening Committee constituted for the purpose by the Government vide G.O. (P) No.19/2002/SCSTDD dated 20.04.2002 and as authorised by Section 6 of the Kerala (Scheduled Castes and Scheduled Tribes) Regulation of Issue of Community Certificates Act, 1996 (Act 11 of 1996) and G.O(P)No. 15/ 2011/ SCSTDD dated 01.02.2011.
(d) The SC/ ST claims in respect of those who have migrated from one State to another will be subject to the provisions of G.O. (MS) No.10/ 86/ SCSTDD dated 12.02.1986. Only the children of those who had migrated to this State before the promulgation of the Constitution (Scheduled Castes) Order 1950 and the Constitution (Scheduled Tribes) Order 1950, and who ordinarily reside in this State can claim SC/ ST benefits from the State of Kerala. They must be able to prove this, if required.
(e) WARNING : Those who produce false SC/ ST Certificate for claiming reservation under SC/ ST quota shall be liable for the penalties stipulated in section 15 of the Act referred to in Clause (c) above. Candidates and their parents who make such applications are warned that in addition to prosecution they will have to suffer the following consequences, in case the SC/ ST certificate produced is found to be false and the candidate does not belong to any SC/ ST communities, under section 16 of the Act "Benefits secured on the basis of false community certificates will be withdrawn.
(i) Whoever not being a person belonging to any of the Scheduled Castes or Scheduled Tribes secures admission in any educational institution against a seat reserved for such castes or tribes or secures any appointment in the Government, Government Undertakings, Local Authority or in any other Company or Corporation owned or controlled by the Government or in any aided institution against a post reserved for such castes or tribes or enjoys any other benefits intended exclusively for such castes or tribes by producing a false community certificate shall, on cancellation of the false community certificate, be removed by cancelling the irregular admission in the concerned educational institution, or as the case may be, removed from the said service forthwith and any benefit enjoyed by him as aforesaid shall be withdrawn forthwith.
(ii) Any amount paid to such person by the Government or any other agency by way of scholarship, grant, allowance, stipend or any other financial benefit shall be recovered as if it is arrears of public revenue due on land.
(iii) Any degree, diploma or any other educational qualifications acquired by such person after securing admission in any educational institution on the basis of a false community certificate shall also stand cancelled on cancellation of the community certificate obtained by him."
(f) Claim of OEC candidates against the un-availed seats of SC/ ST candidates: Other Eligible Community (OEC) candidates are eligible for the un-availed seats, if any, under SC/ST quota, as per GO(P) No. 135/87/H.Edn dated 06.05.1987. They should specify their community status in the application. Such candidates should furnish "Non-Creamy Layer" Certificate obtained from the Village Officer concerned in the proforma available along with the printout of the application itself as per GO(P) 1/2015/BCDD dated: 01.01.2015 and GO(MS) No.4/2015/ H.Edn. dated: 05.01.2015. Relaxation in marks in the qualifying examination as in the case of SEBC candidates will be applicable to OEC candidates [As per GO(P) No.53/2000/SCSTDD dated 03.07.2000]. The list of Other Eligible Communities is given in Annexure $X$ of the Prospectus.
(g) Claim for fee concession to OEC candidates: Candidates belonging to Other Eligible Communities are exempted from payment of fee at the time of allotment to professional Degree Courses under Government/ Community quota as per G.O. (MS) No. 36/07/ SCSTDD dated 03.07.2007. Those OEC candidates who have submitted the Non-Creamy Layer Certificate for availing the applicable reservation will be granted the fee concession based on the Non-Creamy Layer Certificate. But those OEC candidates who do not come under Non-Creamy Layer Category should submit the Community Certificate obtained from the village officer along with the printout of the application for availing the fee concession.
(h) Claim for fee concession to the candidates belonging to communities listed in Annexure $\mathbf{X}$ (a): Candidates belonging to the communities listed in Annexure $X$ (a) whose annual family income is up to Rs. 6 lakhs are exempted from payment of fee at the time of allotment to Professional Degree Courses under Government/Community Quota as per GO (MS) No. 10/2014/ BCDD dated: 23.05.2014. They should provide Community and Income Certificates from the Village Officer in the prescribed format along with the printout of the application. (See Annexure XVIII(i) for details).
5.4.4 Fee Concession and other Scholarships: Candidates desirous of being considered for any fee concession/ scholarship/ any other benefits, based on annual family income should produce Income Certificate from concerned Village Officer, along with the Printout of the application itself.
Note: Income from salary: In the case of candidates whose parents are employed, the Basic Pay and Dearness Allowance of the employee(s) are to be taken into account for the purpose of calculating total annual family income. Inclusion of Interim relief in the annual income will be as per the orders of Revenue Department. HRA, Special pay, Deputation pay, TA, PTA, honorarium etc. need not be counted for calculating the annual family income. (See Annexure XVIII(i) for details).
(a) The annual family income furnished by candidates will be published in the website "www.cee-kerala.org" facilitating the public to raise complaints/ objections against false claims. The District Level Committee and the State Level Committee constituted with the provisions of G.O.(Rt) 1227/08/RD dated 01.04.2008 will conduct detailed enquiry on the complaints and recommend to the CEE for appropriate action, respectively. The CEE, the Chairman and Convenor of the State Level Committee, shall implement the recommendations as per clause 5.4.4.(b) of the Prospectus.
(b) The candidature/ allotment/ admission of the candidates who furnish false Income certificate is liable to be cancelled. Such candidates are also liable to be debarred from appearing for the Entrance Examination for a period extending upto two years.
5.5 Other General Rules for Special/Mandatory Reservation:
5.5.1 The seats unavailed by the Scheduled Castes candidates will go to the Scheduled Tribes candidates and vice versa.
5.5.2 The seats unavailed by the SC/ ST candidates will go to "Other Eligible Community" (OEC) candidates. The seats that still remain unavailed of will go to the State Merit Quota (State wide basis).
5.5.3 The seats unavailed by the SEBC category candidates will be allotted under State Merit.
5.5.4 If any seat, in any special reservation quota, is left unavailed by the candidates belonging to that particular category, it will go to the Mandatory reservation quota, unless otherwise stated.
5.5.5 The seats falling vacant under the All India/ Nominees Quota for MBBS/ BDS, if released to the State Government for allotment as per State Government Norms will be added to the Mandatory reservation quota and the total seats revised under mandatory reservation quota will be re-distributed and allotted as per the mandatory reservation principles. The Director of Medical Education will inform the CEE of such seats through Government of Kerala on or before 27.09.2016.
5.5.6 The seats unfilled under the Govt. of India/Reciprocal Quota after 31.07.2016 for Engineering/ Architecture Courses will be added to the Mandatory reservation quota and the total seats revised under mandatory reservation quota will be re-distributed and allotted as per the mandatory reservation principles. The Director of Technical Education will inform the CEE of such seats on 01.08.2016.
5.5.7 The seats unfilled under the VCI/ICAR for BVSc. \& AH/B.Sc (Hons) Agriculture after 18.10.2016 will be added to the Mandatory reservation quota and the total seats revised under mandatory reservation quota will be re-distributed and allotted as per the mandatory reservation principles. The Registrar, Kerala Veterinary and Animal Sciences University/ The Registrar, Kerala Agricultural University will inform the CEE of such seats on 19.10.2016.

## 6. CRITERIA OF ELIGIBILITY FOR ADMISSION

6.1 Nativity: Only Indian citizens are eligible for admission to Professional courses unless otherwise notified. Persons of Indian Origin (PIO)/ Overseas Citizen of India (OCI) will also be treated at par with Indian citizens for the limited purpose of admission. However PIO/OCl candidates will not be eligible for any kind of reservation.
Candidates seeking admission to Professional courses will be categorised as Keralite, Non-Keralite Category I (NK I) and Non-Keralite Category II (NK II).
Keralite: A candidate of Kerala origin will be categorised as a 'Keralite'. Children of All India Service (AIS) officers (Non-Keralites) allotted to Kerala cadre are deemed to be 'Keralites' as per G.O. (Rt) No. 822/08/H. Edn. dated 29/05/2008. But they will not be eligible for Communal/ Special/ Persons with Disabilities reservation or any fee concession.
(ii) Non-Keralite Category I (NK I): A candidate who is not of Kerala origin but fulfils anyone of the following conditions will be categorised as 'Non-Keralite Category I'(NK I).
(a) A candidate who has undergone qualifying course in Kerala and who is son/ daughter of NonKeralite parents belong to Government of India/ Defence Service, posted to Kerala.
(b) A candidate who has undergone qualifying course in Kerala and who is son/ daughter of NonKeralite parents who are serving/ served Government of Kerala for a minimum period of two years.
(c) A candidate who is not of Kerala Origin but has been a resident of Kerala State for a period of 5 (five) years within the period of 12 (twelve) years of his/ her study.
(d) A candidate who is not of Kerala Origin but who has undergone his/ her school studies in Kerala from standard VIII to XII.
Non-Keralite Category I candidates will be considered against 'State Merit' seats for Engineering/Architecture/Medical \& Allied courses. But they will not be eligible for Communal/ Special/ Persons with Disabilities reservation or any fee concession.
(iii) Non-Keralite Category II [NK II]: Candidates who do not come under 'Keralite' or 'NonKeralite Category I' will be categorised as 'Non-Keralite Category II'. Such candidates are eligible for admission to Management quota seats in Engineering courses in Government Controlled Self financing Colleges. 'Non-Keralite Category II' (NK II) candidates are eligible for admission to Government Seats and Management Quota seats in Private Self Financing Engineering/ Architecture Colleges, which will be notified separately. But they will not be eligible for Communal/ Special/ Persons with Disabilities reservation or any fee concession.
Note : The following category of candidates will not be governed by clauses (i), (ii) and (iii) above:
Candidates to be admitted in respect of seats reserved for the nominees of Government of India, Administration of Union Territory of Andaman \& Nicobar Islands, Lakshadweep Administration, Jammu \& Kashmir, candidates selected through the All India quota seats for MBBS/ BDS courses and candidates sponsored under reciprocal quota by Govt. of Karnataka/ Tamil Nadu.

## 6. 1.1 Certificates to prove Nativity

(a) Keralites: In order to prove that a candidate is an Indian Citizen of Kerala origin for the limited purpose of eligibility for admission, he/she has to produce one of the following certificates along with the printout of the application itself.
(i) The true copy of the relevant page of Secondary School Leaving Certificate of the candidate showing the place of birth in Kerala.
(ii) The true copy of the relevant page of the Secondary School Leaving Certificate of either of the parents of the candidate showing Place of Birth in Kerala with corroborative certificate to establish the relationship between the parent and the candidate.
(iii) The true copy of the relevant page of the Passport of the candidate, issued by Government of India, showing Place of Birth in Kerala or of either of the parents of the candidate showing Place of Birth in Kerala with corroborative certificate to establish the relationship between the parent and the candidate.
(iv) A certificate of birth from the authority competent to register birth (Panchayat/ Municipality Corporation) showing the candidate's or either of the parents' (in which case corroborative certificate to establish the relationship between the parent and the candidate is necessary) place of birth in Kerala, to be issued by a competent registering authority.
(v) A certificate from the Village Officer/ Tahsildar to show that the candidate or his/ her father/ mother was born in Kerala (This is to be obtained in the prescribed format along with the printout of the application).
(vi) A certificate from the competent authority showing that the parent of the candidate is an All India Service officer allotted to Kerala cadre.
(b) Non-Keralites Category I [NK I]: In order to prove that the candidate is a Non-Keralite Category I (NK I) for the limited purpose of eligibility for admission, he/ she has to produce one of the following certificates along with the printout of the application itself.
(i) A Certificate to be issued by the Employer is to be obtained in the prescribed format in the application from the Head of the organisation, where the candidate's parent (employee) is serving/ served, and the 'Certificate showing School studies in Kerala for Standards XI \& XII' is to be obtained from the Head of institution where the candidate underwent his/ her qualifying course in Kerala to satisfy the nativity condition under the sub-clause 6.1(ii).
(ii) A certificate of residence from the Village Officer/ Tahsildar to the effect that the candidate has been a resident of Kerala State for a period of five years within a period of twelve years of his/ her study (to be obtained in the prescribed format along with the printout of the application).
(iii) A Certificate showing School Studies in Kerala from Std. VIII to XII obtained from the Head(s) of the educational institution(s) in Kerala in the case of candidates who have undergone school studies in Kerala to prove that the candidate has undergone his/her studies in the schools in Kerala from Std. VIII to XII. This certificate is to be obtained in the prescribed format in the application itself (For details regarding the Certificate showing School Studies in Kerala from Std. VIII to XII, see Annexure XII).
(c) Non-Keralites Category II [NK II]: They should furnish the 'Certificate of Completion of Qualifying Examination' in the prescribed format in the application itself to prove their nativity or copy of Passport issued by Government of India to prove Indian citizenship.
6.2 Academic Eligibility:
6.2.1 Medical \& Allied Courses:
(a) Medical courses consist of MBBS, BDS, BAMS, BHMS, BSMS and BUMS courses and Allied courses consist of B.Sc.(Hons)Agriculture, B.Sc.(Hons) Forestry, BVSc. \& AH and BFSc. courses.
(i) For MBBS, BDS, BSMS: Candidates who have passed Higher Secondary examination of the Board of Higher Secondary Education, Kerala, or examinations recognised equivalent thereto, with 50\% marks in Biology/Biotechnology separately, and 50\% marks in Physics, Chemistry and Biology/Biotechnology put together, are eligible. In the absence of Biology, Biotechnology will be considered as a subject for academic eligibility.

> Only those candidates who secure $50 \%$ marks in the Medical Entrance Examination (Paper I \& II taken together ie; 480 marks out of 960 ) of KEAM- 2016 will be considered for admission to MBBS/ BDS Courses. Candidates belonging to SC/ ST/ SEBC will be considered for admission to these courses only if they have scored a minimum of $40 \%$ marks in the Medical Entrance Examination (Paper I \& II taken together ie; 384 marks out of 960 ). Candidates with Locomotory disability of lower limbs between $40 \%$ to $70 \%$ will be considered for admission to MBBS course only if they have scored a minimum of $45 \%$ marks in the Medical Entrance Examination (Paper I \& II taken together ie; 432 marks out of 960 ).
(ii) For admission to BAMS/ BHMS courses: Candidates who have passed Higher Secondary examination of the Board of Higher Secondary Education, Kerala, or examinations recognised equivalent thereto, with 50\% marks in Biology separately, and 50\% marks in Physics, Chemistry and Biology put together, are eligible. Biotechnology will not be considered as a subject for academic eligibility.
(iii) For admission to BUMS course: Candidates seeking admission to BUMS (Kamil-E-Tib-WaJ arahat) course must have passed Higher Secondary examination of the Board of Higher Secondary Education, Kerala, or examinations recognised equivalent thereto, with 50\% aggregate marks in the subjects Physics, Chemistry and Biology and 50\% marks in Biology separately and (a) the candidate should have passed $10^{\text {th }}$ or $12^{\text {th }}$ standard with Urdu or Arabic or Persian language as a subject or (b) pre-Tib examination of one year duration.
(iv) For admission to B.Sc.(Hons.)Agri., B.Sc.(Hons) Forestry, BFSc courses: Candidates who have passed Higher Secondary examination of the Board of Higher Secondary Education,

Kerala, or examinations recognised equivalent thereto, with 50\% marks in Biology separately, and $\mathbf{5 0 \%}$ marks in Physics, Chemistry and Biology put together, are eligible. Biotechnology will not be considered as a subject for academic eligibility.
(b) For admission to BVSc. \& AH Course: Candidates should have secured not less than 50\% aggregate marks in English, Physics, Chemistry and Biology for the qualifying examination, in addition to the condition as stipulated in clause 6.2.1(a(iii)) as per regulation 5 of Minimum standards of Veterinary Education Degree Course (BVSc \& AH) Regulation, 1993. Relaxation in marks is permissible as stipulated in clause 6.2.4.
(c) Candidates who have passed the BSc Degree (Three year course) examination with Physics, Chemistry, Zoology, Botany or Biotechnology as Main, and any one or two of the above subjects as Subsidiaries, with $50 \%$ marks for Main \& Subsidiaries taken together, subject to the condition that they have passed Higher Secondary Examination, Kerala or examinations recognised as equivalent thereto with Physics, Chemistry and Biology as optional subjects are eligible for admission to MBBS, BDS, BAMS, BHMS and BSMS courses.

### 6.2.2 Engineering courses:

[Including B.Tech (Agri. Engg.) and B.Tech (Food Engg.) courses under the Kerala Agricultural University and B.Tech (Dairy Sc. \&Technology) and B.Tech (Food Technology) courses under Kerala Veterinary \& Animal Sciences University].
(a) Candidates who have passed Higher Secondary Examination, Kerala, or Examinations recognized as equivalent thereto, with $50 \%$ marks in Mathematics separately, and 50 \%marks in Mathematics, Physics and Chemistry put together are eligible for admission. However candidates who have passed Higher Secondary Examination, Kerala, or Examinations recognized as equivalent thereto, with $45 \%$ marks in Mathematics, Physics and Chemistry put together are eligible for admission under Management Quota in Private Self Financing Engineering Colleges/ Government Controlled Self Financing Engineering Colleges. In case, the candidate has not studied Chemistry, the marks obtained in Computer Science shall be considered. In case, the candidate has not studied Chemistry and Computer Science, the marks obtained in Biotechnology shall be considered. In case, the candidate has not studied Chemistry, Computer Science and Biotechnology, the marks obtained in Biology shall be considered. The marks as shown in the mark list of the Board of Examination obtained from the respective Higher Secondary Board shall be considered for academic eligibility.
Note:- (i) In two year Kerala Higher Secondary courses or examinations recognised equivalent thereto with two year course where the Board Examinations are conducted in both years, the total marks of two years in the respective subjects as shown in the mark lists of the respective Higher Secondary Boards will be considered for academic eligibility.
(ii) In Higher Secondary courses or examinations recognised equivalent thereto where Board Examinations are conducted only at the end of $12^{\text {th }}$ class (final year), the marks in the respective subjects as shown in the mark lists of the respective Higher Secondary Boards will be considered for academic eligibility.
(iii) For all other type of Higher Secondary courses or examinations recognised equivalent thereto, the marks of the respective subjects as shown in the mark list of the respective Board of Examinations will be considered for academic eligibility.
(b) Candidates who have passed Higher Secondary Examination, Kerala, or examinations recognised as equivalent thereto, with 50 \% marks in Mathematics/ Biology separately, and 50 \% marks in Physics, Chemistry and Mathematics/ Biology put together are eligible for admission to the seats reserved for Dairy Farm Instructors of Dairy Development Department for B.Tech. (D.Sc. \& Tech). However, the candidates admitted to the course have to take a make-up course in Basic Mathematics (2+0) credits or Applied Biology (1+1) credit as the case may be.
Note: (i) The Vocational Higher Secondary Examination, Kerala, has been recognised as equivalent to the Higher Secondary Examination, Kerala.
(ii) In the case of nominees of Government of India and nominees of reciprocal quota seats who are selected on the basis of the marks in the qualifying examination, the academic eligibility as specified in clause 6.2.2 (a) is applicable.

### 6.2.3 Architecture course:

(a) Minimum academic eligibility for admission to B. Arch.:
$10+2$ or equivalent examination from a recognised Board with Mathematics as a subject of study by securing $50 \%$ marks in aggregate.


10+3 Diploma (any stream) recognised by Central/State Governments with 50\% aggregate marks.


International Baccalaureate Diploma, after 10 years of schooling, with not less than 50\% marks in aggregate and with Mathematics as compulsory subject of examination.
(b) In addition to the academic eligibility prescribed under clause 6.2 .3 (a), only those candidates who score $40 \%$ or 80 marks out of 200 (for all categories of candidates) in the National Aptitude Test in Architecture (NATA) will be considered for admission to B. Arch. course. There is no relaxation in the minimum passing score of NATA to any category of candidate as per letter No. CA/ 5/Academic-NATA dated 11.03.2008. The candidates are advised to qualify in NATA sufficiently earlier than 05.06.2016.
(c) There is no provision for lateral admission to the second year or at any stage during the 5 year course in Architecture.

### 6.2.4 Relaxation in marks:

For all the courses, candidates belonging to Socially and Educationally Backward Classes (as per G.O. (P) No. 208/66/Edn dated 02.05.1966, GO(MS) No. 10/2014/BCDD dated: 23.05.2014, GO (P) No. 1/2015/BCDD dated: 01.01.2015 and amendments thereof), will have a relaxation of $5 \%$ marks in the qualifying examination. They need only $45 \%$ marks in the case of Mathematics/ Biology and $45 \%$ marks in the case of Mathematics/ Biology, Physics and Chemistry put together. The Scheduled Castes and Scheduled Tribes candidates need only a pass in the qualifying examination. However, for admission to MBBS/ BDS courses, candidates belonging to SC/ST categories need $40 \%$ marks in Physics, Chemistry and Biology/ Biotechnology put together in the qualifying examination. Candidates with Locomotory disability of lower limbs between 40\% to 70\% need only $\mathbf{4 5 \%}$ marks in case of Biology/Biotechnology and 45\% marks in case of optional subjects put together for admission to MBBS course (as per the Guidelines of Medical Council of India). The candidates belonging to PD category will have a relaxation of $5 \%$ marks in the qualifying examination for Engineering and Medical Allied Courses except for BDS. They need only 45 \% marks in the case of Mathematics/Biology and $45 \%$ marks in the case of Mathematics/ Biology, Physics and Chemistry put together. Provided that in cases where only grades are given for qualifying examination and marks are not mentioned, the grade covering $45 \%$ marks will be considered as criterion for eligibility. The relaxation in marks in the Qualifying Examinations available to SEBC and PD Candidates will not be applicable to the admissions under Management Quota in Private Self Financing Engineering Colleges/ Government Controlled Self Financing Engineering Colleges. Biotechnology will not be considered for the courses for academic eligibility as specified in clauses 6.2 .1 (a) (ii), 6.2.1 (a) (iii) \& 6.2.1 (b). Optional subjects are the subjects specified in Clauses 6.2.1, 6.2.2 \& 6.2.3 for the respective courses.
The relaxation of marks in the qualifying examination extended to SEBC candidates only will be applicable to OEC candidates even if they are allotted against the unavailed seats of SC/ ST quota. Also refer clause 5.4.3 (f).
6.2 .5 (i) Candidates who have appeared for the Higher Secondary or equivalent examination will be permitted to take the Entrance Examinations provisionally. The candidates should have appeared for the qualifying examination before taking the Entrance Examination. Such candidates should prove their academic eligibility on the date of admission.
(ii) Candidates who have qualified in the Engineering Entrance Examination should submit their marks online through the Official website of the CEE (www.cee.kerala.gov.in) and forward the true copy of the mark list of final year of the qualifying examination, duly attested by a gazetted officer so as to reach the Office of the CEE on or before 05.06.2016.
6.2.6 Candidates referred to in Clause 6.2.1(c) who have only appeared or are appearing for the BSc. Degree Examination, are not eligible to apply as per Clause 6.2.5.
6.2.7 No rounding off of the percentage of marks to the nearest whole number is permitted. For example, a score of 50 marks out of 100 or 150 marks out of 300 alone will be considered as $50 \%$ marks and scores of 45 out of 100 or 135 out of 300 alone will be considered as $45 \%$ marks for determining eligibility.
6.3 AGE:
6.3.1 Applicants should have completed $\mathbf{1 7}$ years of age as on the $\mathbf{3 1}{ }^{\text {st }}$ December 2016. No relaxation in the minimum age will be allowed. There is no upper age limit for KEAM-2016.

## 7. HOW TO APPLY FOR THE ENTRANCE EXAMINATION

7.1 Online Submission of Application: Online submission of application through the website www.cee.kerala.gov.in is required to apply for the Entrance Examination for admission to all the courses (Medical \& Allied, Engineering and Architecture). If a candidate submits more than one printout of the application, his/her candidature is liable to be cancelled.
7.2 Application Fee:
7.2.1 A candidate who does not belong to SC/ST communities will be treated as 'General' candidate for the collection of application fee. The application fee for all candidates will be as follows:
General
Rs. 1,000/ -
SC : Rs.500/ -
(a) ST candidates are exempted from payment of application fee. Security Cards (free of cost) and Prospectus will be distributed through Tribal Welfare Offices on production of ST Certificate.

Candidates referred to in Clause 5.4.2 (d), who are children of Inter-Caste married couple of which one is SC/ ST who will be eligible for educational and monetary benefits admissible to SC/ ST as per Clause 2 (ii) of GO (MS) No.25/2005/SCSTDD dated 20.06.2005, should mention the same in the form meant for it. They should attach an inter-caste marriage certificate from the Revenue officials along with the printout of the application form.
7.2.2 Candidates choosing 'Dubai' as Examination Centre will have to remit an additional fee of Rs. 12,000/- by way of a Demand Draft (DD) drawn on a Nationalised Bank, in favour of the Commissioner for Entrance Examinations, payable at Thiruvananthapuram along with the printout of the application. Such candidates should give a local contact number, if available, in their application in the appropriate place. If the additional fee of Rs. 12,000/ - is not paid by the candidates in the form of DD along with the printout of the application, they will be allotted a centre within the country.
7.2.3 Candidates desirous of getting admission to Architecture Course and possessing the required minimum qualification mentioned under Clause 6.2 .3 will have to appear for the "National Aptitude Test in Architecture" (NATA), conducted by the National Institute for Advanced Studies in Architecture (NIASA). They should appear for NATA in such a manner that they can submit their NATA score to the CEE as stipulated in clause 9.7.9. The details will be notified separately. Candidates applying for the Engineering and/ or Medical Entrance Examination and opting for Architecture also will have to appear for the 'National Aptitude Test in Architecture', as mentioned above. The candidates are advised to qualify in NATA sufficiently earlier than 05.06. 2016.
7.3 Mode of Payment of Application Fee:
7.3.1 Candidate can pay application fee in either of the two following methods:
(a) Security Card: Security Card and Prospectus can be obtained from selected Post Offices in Kerala and outside the State, on payment of the prescribed fee (Rs.1000/- or Rs.500/- as the case may be), by cash. List of Post Offices that issue Prospectus and Security card will be notified separately. Security card will not be available at the Office of the Commissioner for Entrance Examinations. The Security card consists of a KEY NUMBER, which is inside the Security panel and not visible before scratching the silver panel. There is a Serial Number on each Security card. The Key number and Serial Number are unique and are required for filling up of payment details in the online application.
(b) Demand Draft: Application fee can be paid by way of Demand Draft (DD) drawn on a Nationalised/Scheduled Bank, in favour of the Commissioner for Entrance Examinations, payable at Thiruvananthapuram.
Those candidates who choose centre in Dubai will have to make the remittance as per Clause 7.2.2, along with the printout of the application.

Important: The Candidate should maintain strict confidentiality of the Key Number and keep it in safe custody till the end of allotment process of KEAM 2016. The Key number is also required for Option registration for admission to the Professional Courses. The candidates who pay the application fee through Demand Draft will be issued Key number only after the preparation of rank list. [Refer Clause 11.5.3(i)]

Note: The Application fee/additional fee once remitted will not be refunded under any circumstances.

### 7.4 Online submission of Application:

(a) The detailed instructions for filling each item in the application are given in Annexure XX of the Prospectus and in the link, "How to Apply" provided on the websites www.ceekerala. org and www.cee.kerala.gov.in .
(b) There are 7 steps for the online submission of application and all the steps are mandatory. Candidates should complete all steps and should send the signed printout of the online submitted application along with the necessary certificates and documents so as to reach the office of the Commissioner for Entrance Examinations on or before $30^{\text {th }}$ J anuary 2016.
Candidate has to visit the website www.cee.kerala.gov.in where he/ she can find the link "KEAM-2016 Online Application".

## Step 1: Candidate Registration

This is a one-time procedure. During the process, candidates will get a system generated Application Number. Candidates are requested to enter their own password when demanded. Preferably a strong password is recommended. It ensures the candidates' safe online activities. The requirements of a strong password are:
a minimum length of 8 characters
a minimum of one alphabet character [a-z or $\mathrm{A}-\mathrm{Z}$ ]
a minimum of one number (0-9)
a minimum of one symbol [! @ \# \$ \% ^ \& * ]
The candidate has to re-enter the password for confirmation.
Don't disclose password to others. Remember the password till the end of allotment process of KEAM-2016 for further login including mark submission and CAP.
There will be a Security question and candidates should provide an answer to it. For further login, candidates have to note down all the information provided during this stage.

## Step 2: Candidate Login

Login is required to proceed through all other stages of online submission. In order to login, candidate should provide Application number and Password.

## Step 3: Filling up of Application

All the basic information, required at the Office of the Commissioner for Entrance Examinations are to be filled in at this step. Before filling the details, read the Prospectus carefully.
The data provided here will be used for processing the application. Any mistake in filling this sheet or providing false/ incomplete/ wrong information will affect the candidate's eligibility for admission or claim for reservation under any category. It is obligatory that the candidate should fill all the items in the application.
Candidates should click the 'Save' button to save the entries made so far before proceeding to Step 4. At this stage the candidate can login, view and modify the details provided. Candidates should take utmost care while filling the Online Application. Applicant should ensure that the data provided are correct before proceeding to step 4.

## Step 4: Final Submission of Application

This is also a one-time procedure. If candidate is sure that the information provided in step 3 is correct, click the link 'Final Submission'.
Note:- No modification of the application will be possible after Final Submission of application in step 4.

## Step 5: Payment of Application Fee

At this step candidate has to provide payment details of application fee. (Refer clause 7.3)

## Step 6: Printout of the Application

Candidate should take a printout of the online submitted application which contains all the information provided during step 3 and step 5. Candidates should get the Course Certificate and Nativity Certificate provided in the application.

## Step 7: Send the Printout of application and supporting documents to the Commissioner for Entrance Examinations

Affix a photograph of the applicant with $3.5 \times 4.5 \mathrm{~cm}$ size same as the photograph uploaded on the online application duly attested by the Head of the Institution which he/ she studied last or by a Gazetted Officer. Candidate should affix the left hand thumb impression in the
space provided in the printout of the application. The applicant and parent should sign in the specified areas on the printout of the application and attach supporting documents/ certificates (see clauses $7.5 \& 7.6$ of the prospectus) and send to the Office of the Commissioner for Entrance Examinations, 5 ${ }^{\text {th }}$ Floor, Housing Board Buildings, Santhi Nagar, Thiruvananthapuram - $\mathbf{6 9 5 0 0 1}$ so as to reach the addressee on or before the last date specified for submission of application.
(c) Applications should be completed in all respects. A candidate will be considered for the Entrance Examination or for admission, only if he/ she has furnished the relevant certificates prescribed in the Prospectus, in proof of eligibility, or in support of any claim for reservation, under any category.
The procedure of online submission of application will be completed only after the printout of Application and supporting documents / certificates are received in the office of the Commissioner for Entrance Examinations. Candidates are directed to keep a copy of the printout of completed application form for further reference.

### 7.5 Reservation Claims:

7.5.1 To claim Communal Reservation: Only 'Keralites' as specified in Clause 6.1(i) are eligible for Communal Reservations.
(a) Non-Creamy Layer Certificate to be obtained in the prescribed format along with the printout of the application for claiming reservation under SEBC quota, and OEC claim for Government Seats.
(b) Community certificate for claiming reservation under $\mathrm{SC} / \mathrm{ST}$, for Govt. seats to be obtained in the prescribed format along with the printout of the application.
(c) Inter-Caste marriage certificate in the prescribed format to be obtained from the authorities concerned for candidates who are children of Inter-Caste married couple of whom one is SC/ ST, and who are eligible for educational and monetary benefits admissible to SC/ ST as per Para 2 (ii) of GO (MS) No.25/ 2005/ SCSTDD dated 20.06.2005. Proforma of the certificate is given in Annexure XV.
7.5.2 To claim Special Reservation: Candidates should produce Original certificates from the authority concerned in support of any special reservation claimed by them (See clause 5.2).
7.5.3 To claim reservation under 'Persons with Disabilities': Self attested copy of the Medical Certificate from the District Medical Board as stipulated in Clause 5.3.
7.5.4 To claim any fee concession/scholarship: Candidates belonging to 'Keralite' category as defined in Clause $6.1(\mathrm{i})$, except those who are eligible for educational and monetary benefits admissible to SC/ST/OEC categories who wish to be considered for any fee concession/ scholarship/ any other benefit based on the annual family income, that may be announced by the Government/College/Admitting authority at any time after the submission of the application, should submit the income certificate from the concerned authorities in the prescribed format, at the time of submission of the application itself, to avail of such concessions. Income certificates attached separately or produced after submission of the application will not be considered for granting any such concession.
Note: Certificates which are defective and incomplete will not be considered for granting any claim. Memo will not be sent to applicants by post who submit certificates which are defective/ incomplete to any claim. [See Clause 9.6.2 (c)]
7.6 Enclosures to be submitted with the filled-in Application:
(a) Proof for Nativity as specified in Clause 6.1.1.
(b) Self Attested copy of the relevant page of the SSLC or equivalent certificate to prove date of birth, in case Date of Birth is not certified in the Course Certificate issued by the Head of the Institution, in the Application.
(c) Course Certificate in original duly filled in with signature and seal of the Head of the Institution in which the candidate is studying OR Self Attested copy of the final year mark list of the qualifying examination.
(d) Non-Creamy Layer Certificate in the prescribed format in original from the concerned Village Officer for community reservation claims in the case of SEBC/ OEC candidates.
(e) Community Certificate in original from the concerned Tahsildar in the case of SC/ST candidates.
(f) Original certificates as proof in support of any claim for special reservation.
(g) Inter-Caste marriage certificate in original from the concerned Village Officer, if applicable. [See Clause 7.5.1 (c)]
(h) Self-attested copy of Medical certificate from the District Medical Board in the case of 'Persons with disabilities' [PD].
(i) Self-attested copies of mark lists of ALL PARTS of the BSc. Degree Examination and Higher Secondary or equivalent Examination with Physics, Chemistry and Biology as optional subjects, in case of those seeking admission to Medical courses as per Clause 6.2.1 (c).
7.7 (i) Those seeking admission to Medical courses as per Clause 6.2.1(c) should satisfy the academic eligibility conditions at the time of submission of application.
(ii) All Candidates who have passed/are appearing for the Higher Secondary or equivalent examination will be provisionally admitted to the Medical Entrance Examination under KEAM-2016, if they otherwise satisfy the eligibility conditions. They should produce the original mark list of the qualifying examination passed, at the time of admission.
(iii) All Candidates who have passed/are appearing for the Higher Secondary or equivalent examination will be provisionally admitted to the Engineering Entrance Examination under KEAM-2016, if they otherwise satisfy the eligibility conditions. All candidates should submit marks online through Official website of CEE for Engineering Courses and forward the printout along with the self attested copy of the mark list of the qualifying examination, on or before 05-06-2016. All candidates should produce the original mark list of the qualifying examination passed, at the time of admission.
(iv) Those candidates appearing for Engineering Entrance Examination who do not submit the marks in the final year of the Qualifying Examination through the official website of the Commissioner for Entrance Examinations www.cee.kerala.gov.in and who do not produce the self attested copy of the mark list of final year of the Qualifying Examination on or before the date specified will not be included in the Engineering Rank List.
7.8 (a) IMPORTANT: DOCUMENTS OR CERTIFICATES FURNISHED AFTER THE SUBMISSION OF THE APPLICATION FOR MEDICAL \& ALLIED COURSES, ENGINEERING \& ARCHITECTURE COURSES WILL NOT BE ENTERTAINED UNDER ANY CIRCUMSTANCES. NO OPPORTUNITY WILL BE GIVEN TO INCORPORATE ANY DETAILS/ CERTIFICATES AFTER THE SUBMISSION OF THE APPLICATION.* (see clause 7.8(b) also)
(b) CANDIDATES WHO ARE QUALIFIED IN THE ENGINEERING ENTRANCE EXAMINATION SHOULD SUBMIT THEIR MARKS OF THE FINAL YEAR OF THE QUALIFYING EXAMINATION ONLINE THROUGH OFFICIAL WEBSITE OF THE COMMISSIONER FOR ENTRANCE EXAMINATIONS AND SHOULD SEND ITS PRINTOUT ALONG WITH THE SELF ATTESTED COPY OF THE MARK LIST ON OR BEFORE 05.06.2016.
(c) NON-CREAMY LAYER CERTIFICATE, INCOME CERTIFICATE \& COMMUNITY CERTIFICATE SHOULD BE IN ORIGINAL IN THE PRESCRIBED FORMAT, AND WILL BE CONSIDERED ONLY IF SENT ALONG WITH THE PRINTOUT OF THE ONLINE APPLICATION.

* Refer to the ruling of the Honorable High Court of Kerala in 1995(2) KLT 629, 1999(2) KLJ 836 and 1999(3) KLT 773.

8. SUBMISSION OF PRINTOUT OF ONLINE APPLICATION : THE PRINTOUT OF THE ONLINE APPLICATION WITH ALL REQUIRED CERTIFICATES/DOCUMENTS ALONG WITH THE DEMAND DRAFT (IF APPLICABLE), SHOULD BE ENCLOSED IN THE ENVELOPE ADDRESSED TO ‘THE COMMISSIONER FOR ENTRANCE EXAMINATIONS, $5{ }^{\text {TH }}$ FLOOR, HOUSING BOARD BUILDINGS, SANTHI NAGAR, THIRUVANANTHAPURAM-695 001' AND SHOULD REACH THE ADDRESSEE BY REGISTERED POST/SPEED POST/HAND DELIVERY, BEFORE THE LAST DATE AND TIME NOTIFIED BY THE COMMISSIONER.

WARNING: BELATED APPLICATIONS WILL BE REJ ECTED

## 9. EXAMINATIONS

### 9.1 Venues:

Entrance Examinations will be held at the selected venues in all Districts in the State, Mumbai, New Delhi and Dubai.
9.1.1 No request for change in the Examination centre will be entertained.
9.2 Papers/Subjects in the Entrance Examinations:
G.O.(Ms)No.153/ 99/H.Edn. Dated 22.11.1999 stipulates that the Entrance Examinations for Engineering and Medical \& Allied courses will be conducted separately, each test with a relative weightage of $5: 3: 2$ in Mathematics, Physics \& Chemistry in Engineering Entrance Examination and in Biology, Chemistry \& Physics for Medical Entrance Examination.
As per the Guidelines issued by the Council of Architecture, there will be a centralised mechanism of conducting a "National Aptitude Test in Architecture" (NATA), which is mandatory for admission to the 5 -year B. Arch. Course in all Architecture institutions in India, which includes NITs and IITs, Government institutions, Government Aided institutions,

Universities, Deemed Universities and Private Universities formed by a Central or State Legislature and other Private Self-financing institutions. The CEE will not conduct 'Aptitude Test' for B. Arch. course in view of the guidelines issued by the Council of Architecture.
9.2.1 (a) Papers for the Engineering Entrance Examination:

| Paper I | - | Physics \& Chemistry |
| :--- | :--- | :--- |
| Paper II | - | Mathematics |

Each Paper will be of two and a half hours duration.
(b) Papers for the Medical Entrance Examination:

| Paper I | - | Chemistry \& Physics |
| :--- | :--- | :--- |
| Paper II | - | Biology |

Each Paper will be of two and a half hours duration.
9.2.2 Candidates desirous of being considered for the entire Medical \& Allied courses, will have to write both papers of the Medical Entrance Examination.
9.2.3 Candidates desirous of obtaining admission to the Agricultural courses and Veterinary courses except B.Tech. (Agri. Engg.), B.Tech (Food Engg.), B.Tech. (DSc. \& Tech.) and B.Tech (Food Technology) will have to write Paper I - Chemistry \& Physics and Paper II Biology of Medical Entrance Examination. Candidates will have to appear for Paper I Physics \& Chemistry and Paper II -Mathematics of Engineering Entrance Examination for being considered for B. Tech. (Agri. Engg.), B.Tech. (Food Engg.), B. Tech. (DSc. \& Tech.) and B.Tech (Food Technology) courses.
9.2.4 Candidates who wish to be considered ONLY for Engineering Courses [including B.Tech. (Agri. Engg.), B.Tech. (Food Engg.) under the Kerala Agricultural University and B. Tech. (DSc. \& Tech.) and B.Tech (Food Technology) courses under Kerala Veterinary and Animal Sciences University], will have to write Paper I - Physics \& Chemistry and Paper II Mathematics of the Engineering Entrance Examination.
9.2.5 Candidates desirous of being considered for Medical \& Allied courses and Engineering Courses will have to write both papers of the Medical Entrance Examination as well as Engineering Entrance Examination.
9.2.6 Candidates desirous of being considered for admission to the Architecture Course will have to appear for the "National Aptitude Test in Architecture" (NATA) and become eligible for inclusion in the rank list for admission to Architecture course. Candidates included in the Engineering rank list will not be considered for admission to B. Arch. course based on their Engineering rank.
9.2.7 Candidates desirous of being considered for Medical \& Allied courses and Engineering Courses will have to write all the papers prescribed for the Engineering and Medical Entrance Examinations. Candidates desirous of being considered for Architecture course also should appear for the "National Aptitude Test in Architecture" (NATA) to be conducted by the 'National Institute for Advanced Studies in Architecture', an academic unit of the Council of Architecture, India and to get qualified in NATA before 05.06.2016.

### 9.3 Non - appearance in any Paper:

9.3.1 A candidate NOT appearing in any one of the relevant papers, in a particular Entrance Examination (Engineering or Medical), will be disqualified, and WILL NOT be considered for ranking in that particular Entrance Examination.
In other words, appearance in the two relevant papers: Paper I - Physics \& Chemistry and Paper II - Mathematics for Engineering, Paper I - Chemistry \& Physics and Paper II - Biology for Medical \& Allied courses is compulsory for being considered in the respective rank lists.
9.3.2 Only those candidates having the prescribed minimum qualifying marks as stipulated under Clause 6.2.3 and having a valid 'NATA' score will be considered for preparing the rank list of Architecture Course. [Also see clause 9.7.4 (f)(ii)]
9.3.3 Appearance of a candidate in the Entrance Examination, or inclusion of a candidate in the rank lists or allotment does not entitle him/ her for admission to a course, unless the rules regarding eligibility for admission, as laid down in the Prospectus under various Clauses, are satisfied.
9.4 Scheme of the Examinations:
9.4.1 The Engineering and Medical Entrance Examinations (KEAM-2016) will be objective type with Multiple Choice Questions and based on single response. For each question, five suggested answers would be given, of which only one will be the MOST APPROPRIATE RESPONSE. The candidate will have to select and mark the alphabet ( $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$ or E ) corresponding to the
most appropriate response in the OMR Answer Sheet. (A specimen answer sheet is appended as Annexure XXIV)
9.4.2 The question paper for objective type examinations will be given in the form of Question Booklets. Candidates will be permitted to take the question booklet with them at the end of examination.
9.4.3 For Engineering and Medical Entrance Examinations, each Paper will have 120 questions to be answered in 150 minutes.
9.4.4 Scoring, negative marks: For each correct response in the Engineering and Medical Entrance Examinations, the candidates will be awarded FOUR marks, and for each incorrect response, ONE mark will be deducted from the total score. For all these papers, in the event of failure to answer a question, (that is, no response is indicated against a question in the answer-sheet) no deduction from the total score will be made. More than one answer indicated against a question will be deemed as incorrect response, and will be awarded negative marks. Therefore the candidates are advised not to attempt an answer, if they are not sure of the correct response, because mere guessing may lead to choice of wrong answers, with the consequent penalty of negative marks. However, the candidates who fail to answer at least one question in each paper will be disqualified.
9.5 The standard of the Examination:
9.5.1 The standard of the Entrance Examinations will be that of Higher Secondary or equivalent examinations. The syllabi for all the subjects for the Entrance Examination are given in Annexure I of the Prospectus.
9.5.2 The syllabi published in the Prospectus are only outlines of the topics that will be covered in the examination. Since the examinations are of highly competitive nature and the cream of the competing students has to be found out through a process of elimination, questions of applied nature of higher order on the topics included in the published syllabi can be expected. Questions are not based on NCERT textbooks or any other textbooks exclusively.
9.6 The Conduct of Examinations:

### 9.6.1 Dates of the Entrance Examinations:

The Entrance Examinations will be conducted at selected venues as per the following schedule and as per Indian Standard Time:
Engineering Entrance Examination:

| 25.04. 2016 (Monday) | 10.00 am to 12.30 pm | Paper I - Physics \& Chemistry |
| :--- | :--- | :--- |
| 26.04. 2016 (Tuesday) | 10.00 am to 12.30 pm | Paper II - Mathematics |

## Medical Entrance Examination:

| 27.04. 2016 (Wednesday) | 10.00 am to 12.30 pm | Paper I - Chemistry \& Physics |
| :--- | :--- | :--- |
| 28.04. 2016 (Thursday) | 10.00 am to 12.30 pm | Paper II - Biology |

9.6.2 Online Admit Cards:
(a) The Admit Card for the Entrance Examination can be downloaded from the official website of the Commissioner for Entrance Examinations, www.cee.kerala.gov.in . The candidates will have to enter their Application number and Date of Birth provided in the application form in order to download the admit card. They will have to take a printout of the admit card. Admit cards will not be sent by post from the Office of the Commissioner for Entrance Examinations. Help Desks and Facilitation Centres will be functioning across the State from where candidates can download and take printouts of admit card. The venue of the examination and time table will be noted in the admit card. Separate notification in this regard will be issued.
(b) Rejection memo will be sent to candidates whose application has been rejected.
(c) No memo will be sent by post in the case of defective applications. The defects in the applications will be displayed on the homepage of the candidate while attempting to download the admit card by giving his/ her Application Number and Date of Birth. Defects if any, should be rectified within the dates specified in the notification pertaining to the download of admit cards.
(d) All candidates whose application has been accepted should download their admit card well in advance. A candidate who does not possess the Admit Card will not be admitted to the Examination Hall under any circumstances.
9.6.3 Location of Liaison Officers: The Liaison Officers of KEAM-2016 will be present in the following locations between 9 a.m. and 1 p.m. on 24.04. 2016.

| Thiruvananthapuram | Govt. Model HSS, Thycaud,Trivandrum | $0471-2323641$ |
| :--- | :--- | :---: |
| Kollam | Govt. Model BHSS, Thevally, Kollam | $0474-2794892$ |
| Pathanamthitta | Govt. HSS, Pathanamthitta | $0468-2222629$ |
| Alappuzha | Govt. Mohammadans Girls HS, Alappuzha | $0477-2260227$ |
| Kottayam | Govt. Model HSS, Kottayam | $0481-2582932$ |
| Thodupuzha | Govt. HSS, Thodupuzha | $0486-2223217$ |
| Kattappana | Govt. Tribal HSS, Kattappana | $04868-272124$ |
| Ernakulam | SRV Govt. Model VHS School, Ernakulam | $0484-2376944$ |
| Thrissur | Govt. Model HSS for Boys, Thrissur | $0487-2331063$ |
| Palakkad | Govt. Model Moyan HSS for Girls, Palakkad | $0491-2544747$ |
| Malappuram | Govt. Girls HSS, Malappuram | $0483-2738115$ |
| Kozhikode | Govt. Model H S School, Kozhikode | $0495-2722509$ |
| Wyanad | Govt. VHS School, Kalpetta | $04936-204082$ |
| Kannur | Govt. VHS School, Civil Station, Kannur | $0497-2700891$ |
| Kasaragod | Govt. V.H.S. S. for Girls, Kasaragod | $04994-230368$ |
| Mumbai | Sree Narayana Guru College of Commerce, <br> Chembur, Mumbai | $022-25254018$ |
| New Delhi | Kerala House, New Delhi | $011-30411411$ |
| Dubai | The Indian High School, Oudh Mehta Road, P <br> O Box No.106, Dubai, UAE | $009714-3377475$ |

9.6.4 Important:

If any candidate has any genuine complaint regarding the conduct of the examination, he/ she may register his/ her complaint, before the Chief Superintendent of the examination centre, with supporting details/ information, immediately after the particular examination is over. Complaints relating to the conduct of the examination received directly in the Office of the Commissioner for Entrance Examinations will not be entertained.
9.6.5 No Re-examination: Re-examination for those who are unable to appear in the KEAM-2016 entrance examination for any reasons on the scheduled dates of KEAM-2016 shall not be held under any circumstances.

### 9.7 Declaration of Results:

9.7.1 The Commissioner for Entrance Examinations will publish the "Answer Keys" of all Papers of the Entrance Examinations on the website of the CEE (www.cee-kerala.org) and the same will be notified in leading dailies, after the completion of all the examinations.
9.7.2 If any candidate has any complaint regarding the answer keys, the same should be submitted to the CEE in writing along with supporting documents and a fee of Rs. 100/-per question by way of DD in favour of CEE, payable at Thiruvananthapuram, within 5 days from the date of publication of the answer keys on the website of the CEE. If the complaint filed is found to be genuine, the fee remitted while filing the complaint will be refunded. Complaints received after the stipulated date and without requisite fee will not be considered under any circumstances. Complaints received by E-mail/Fax will not be considered on any account.
9.7.3 All complaints on Answer keys received will be referred to subject expert committees to be constituted by the CEE. The recommendations of the Committees will be final. Necessary modifications will be made in the published answer keys based on the recommendations of the committees and the marks for the deleted questions, if any, shall be distributed as per the ruling of the Hon'ble High Court of Kerala in 2002(3) KLT 871. Individual replies will not be given to the candidates on the decision of the Committees.
9.7.4 Preparation of Rank Lists:
(a) There will be separate rank lists for
i. Engineering Courses
ii. Architecture Course
iii. Medical \& Allied Courses
iv. BAMS Course

The Rank List(s) published by the CEE shall not be utilized by any person/institution/ authority other than CEE for the purpose of admission to any Professional Course(s), without prior written permission of the Government of Kerala.
(b) Rank list for Engineering courses
(i) Equal weightage of $50: 50$ shall be given to the score obtained in the Entrance Examination for Engineering (Paper I \& Paper II put together), and the grade/ marks obtained in the final year of the qualifying examination for Mathematics, Physics and Chemistry put together, after effecting the standardization procedure as described in Clause 9.7 .4 (b)(iii). In case, the candidate has not studied Chemistry, the marks obtained in Computer Science shall be considered. In case, the candidate has not studied Chemistry and Computer Science, the marks obtained in Biotechnology shall be considered. In case, the candidate has not studied Chemistry, Computer Science and Biotechnology, the marks obtained in Biology shall be considered.
(ii) The final year marks of the qualifying examination of each subject Mathematics, Physics and Chemistry/ Computer Science/ Biotechnology/ Biology of the students who have passed the subject, received from the respective Boards, shall be transformed out of 100. The marks of the three subjects shall be computed out of 300 after effecting standardization in each subject.
(iii) The formula for standardization as has been approved by the Expert Committee constituted vide G.O.(Rt)No.1758/ 2011/ H.Edn. dated.03.11.2011: The marks secured by a student in the qualifying examination from any Board will be standardized with respect to the statistical parameters such as Global Mean and Global Standard Deviation.
The standardized mark $\mathbf{Y}_{\mathrm{BG}}$ of a candidate of the stream (B) standardized with respect to the global reference stream (G) for the subject is

$$
\mathrm{Y}_{\mathrm{BG}}=\mathrm{M}_{G}+\mathrm{S}_{G}\left(\frac{X_{B j}-M_{B j}}{S_{B j}}\right)
$$

Where $\mathbf{M}_{\mathbf{B j}}$ and $\mathbf{S}_{\mathbf{B j}}$ denote respectively the Mean and Standard Deviation of the marks out of 100 of all students who have passed in a subject of the final year of qualifying examination of any stream ( $\mathbf{B}$ ) of the year $\mathbf{j}$ and $\mathbf{X}_{\mathbf{B j}}$ is the mark of a candidate out of 100 for the subject in the stream (B) of the year $j$.
The Global Mean ( $\mathbf{M}_{\mathbf{G}}$ ) of a subject is the combined average of the marks of that subject out of hundred of all students who have passed in that subject (Mathematics, Physics and Chemistry/ Computer Science/ Biotechnology/ Biology as the case may be), of the final year of the Qualifying Examination of Kerala HSE, Kerala VHSE, CBSE and CISCE Boards taken together for the period from 2009 to 2016. The Global Standard Deviation ( $\mathbf{S}_{\mathbf{G}}$ ) of the subject is the combined standard deviation of marks of that subject out of hundred of all students who have passed in that subject (Mathematics, Physics and Chemistry/ Computer Science/ Biotechnology/ Biology as the case may be), of the final year of the Qualifying Examination of Kerala HSE, Kerala VHSE, CBSE and CISCE Boards taken together for the period from 2009 to 2016.
(iv) The subjects of the qualifying examination considered for the computation of marks for the purpose of ranking shall be Mathematics, Physics and Chemistry. The marks of the concerned subject out of hundred or an equivalent mark out of hundred, as given in the final year mark list of the Qualifying Examination of any plus two stream shall be considered. In case, the candidate has not studied Chemistry, the marks obtained in Computer Science shall be considered. In case, the candidate has not studied Chemistry and Computer Science, the marks obtained in Biotechnology shall be considered. In case, the candidate has not studied Chemistry, Computer Science and Biotechnology, the marks obtained in Biology shall be considered.
(v) Standardization of the marks of the subjects as per the clauses 9.7.4(b)(iii) \& (iv) will be effected under the supervision of the Authority concerned. The standardized mark $Y_{B G}$ shall be taken as it is obtained from the formula given in clause 9.7 .4 (b) (iii). The sum of the standardized marks of three subjects Mathematics, Physics and Chemistry/Computer Science/ Biotechnology/ Biology as the case may be, shall be limited to three hundred.
(vi) The score obtained by the candidate in the Engineering Entrance Examination (Paper I \& Paper II put together) shall be computed out of 300, and added to the total standardized marks of Mathematics, Physics and Chemistry/ Computer Science/ Biotechnology/ Biology as the case may be, of the final year of the Qualifying Examination, computed out of 300, both
corrected to four places of decimals. The rank list for Engineering Courses shall be prepared based on the total marks obtained out of an Index mark of 600, computed as above.
(vii) If any Board/ Authority provides results by letter grades/ CGPA/ OGPA etc., the candidate concerned shall have to submit the marks equivalent as required, from the Board/ Authority concerned, failing which the decision on standardization of marks shall be taken based on the available information by the Committee of Statisticians constituted vide G.O.(Rt) No. 1907/ 11/ H.Edn. dated.25.11.2011, which shall be final and binding on the applicant.
(viii) If any Board/ Authority fails to provide data required for the process of standardization for any year, the mean and standard deviation available for the nearest year after the year of passing of the candidate for the concerned Board/Authority shall be considered for standardization of marks and such decision shall be final and binding on the applicant.
(ix) If any Board/Authority fails to provide data requested and required for the process of standardization and the data for the nearest years after the year of passing of the candidate are also not available, then the mean and standard deviation of CBSE for the respective years, or in the absence of such information from CBSE, the mean and standard deviation of CBSE available for the nearest year after the year of passing of the candidate shall be considered for standardization of marks and such decision shall be final and binding on the applicant.
(c) Rank list for admission to B. Arch Course will be prepared by giving equal weightage to the score obtained in the 'National Aptitude Test in Architecture' (NATA) and to the marks/ grades obtained in the Qualifying Examination by the candidate (As per guidelines of the Council of Architecture, India).
Marks obtained by the candidate in the National Aptitude Test in Architecture (NATA) out of 200 will be added to the total marks/ *grades secured by the candidate in the Qualifying Examination computed out of 200. The Rank list will be prepared based on the total marks obtained out of 400 , computed as above (* If grades are awarded to candidates in their Qualifying Examination, it will be converted to equivalent marks for this purpose).
Candidates to be considered for inclusion in the rank list for allotment to B. Arch course in all institutions including private Self-financing Colleges have to appear for 'NATA' and secure minimum score as prescribed by COA. [Refer Clause 6.2.3 (b)]
(d) Rank list for Medical \& Allied Courses will be prepared on the basis of total marks obtained in Paper I (Chemistry \& Physics) and Paper II (Biology) of the Medical Entrance Examination.
(e) Rank List for Ayurveda Course: A separate rank list for Ayurveda Course will be prepared based on the Medical Rank list. For candidates who have taken Sanskrit as their second language in Higher Secondary or equivalent examination, additional 10 marks will be added to the total marks secured by them in the Medical Entrance Examination (Paper I and Paper Il put together) for the preparation of Ayurveda rank list. For others, the total marks in the Medical Entrance Examination alone will be considered.
(f)

## Resolution of tie while ranking:

(i) Engineering: In the case of a tie in the total marks computed for preparation of Engineering rank, candidate with higher marks in Mathematics in the Entrance Examination will be placed higher in the ranking. If the tie still exists, candidate with higher marks in Physics of the Physics \& Chemistry Paper in the Entrance Examination will be placed higher in the ranking. If there is still a tie, candidate with higher standardized marks in Mathematics of the final year of the qualifying examination will be placed higher in the ranking. If the tie still persists, candidate with higher standardized marks in Physics of the final year of the qualifying examination will be placed higher in the ranking. If there is still a tie, the age of the candidate will be taken into account and the older will be placed higher in the ranking.
(ii) Architecture: In the case of a tie in the total marks computed out of 400 as described in Clause 9.7.4 (c), candidates getting higher score in 'NATA' will be placed higher in the ranking. If there is still a tie, candidates with higher marks in Mathematics in the Qualifying examination, will be placed higher in the ranking. If there is still a tie, the age of the candidate will be taken into account and the older will be placed higher in the ranking.
(iii) Medical \& Allied/Ayurveda: In the case of a tie in the total marks in the Medical Entrance Examination, candidates with higher marks in Biology in the Medical Entrance Examination will be placed higher in the ranking. If there is still a tie, candidates with higher marks in Chemistry of the Chemistry \& Physics Paper in the Entrance Examination will be placed higher in the ranking. If there is still a tie, the age of the candidate will be taken into account and the older will be placed higher in the ranking. The same principle will be adopted to resolve the tie in Ayurveda rank list prepared as per Clause 9.7.4 (e).

Note:- The candidates should send the attested copies of mark lists of Higher Secondary course or its equivalent course and/ or NATA Score Card or any other document required to prepare the rank lists of KEAM-2016 within the date specified in the Notifications issued for the purpose by the CEE. The copy of the mark list and NATA Score Card submitted along with the printout of the applications or for other purposes will not be considered for preparation of the rank list.

### 9.7.5 Qualifying Standards in the Entrance Examination for admission to various courses:

To qualify in the Entrance Examination and thereby become eligible to figure in the rank list for Engineering / Medical/ Ayurveda, a candidate has to score a minimum of 10 marks each in Paper I and Paper II of the concerned Entrance Examination. The candidates who do not score the minimum stipulated marks will not find a place in the rank list.
Exemption: For SC/ ST candidates there is no requirement of minimum marks in the Entrance Examination except for MBBS/ BDS courses. However, the candidates who fail to answer at least one question in each paper will be disqualified.
(i) Qualifying Standards as stipulated by the MCI for admission to MBBS/BDS Courses: Only those candidates who score $50 \%$ marks in the Medical Entrance Examination (Paper I \& Il taken together) will be considered for admission to MBBS/BDS courses. Candidates belonging to SEBC and SC/ ST, will be considered for admission to MBBS/ BDS courses only if they have scored a minimum of $40 \%$ marks in the Medical Entrance Examination (Paper I \& II taken together).
This is applicable to all candidates seeking admission to MBBS/ BDS courses including those under various 'Reservation'/ 'Special reservation' categories.
Candidates with Locomotory disability of lower limbs between $40 \%$ to $70 \%$ will be considered for admission to MBBS course only if they have scored a minimum of $45 \%$ marks in the Medical Entrance Examination (Paper I \& II taken together).
(ii) Qualifying Standards as stipulated by the Council of Architecture for admission to Architecture Course:
In addition to the academic eligibility prescribed under Clause 6.2.3, only those candidates who score 40 \% or 80 marks out of 200 in the National Aptitude Test in Architecture (NATA) will be considered for admission to B. Arch. Course. (As per guidelines of the Council of Architecture, India.) The candidates are advised to qualify in the NATA sufficiently earlier than 05.06.2016.
9.7.6 Valuation of Answer Papers: A fully computerised system is being used for evaluation of answer scripts of objective type papers, using the Optical Mark Reading (OMR) System, and for the preparation of the rank lists and various merit lists. There is no provision for revaluation or rechecking of answer sheets as the valuation or scoring will be error-free. No correspondence in this regard will be entertained.
9.7.7 Publication of the Results: The rank lists for Engineering, Architecture, Medical, Ayurveda will be published separately. The results will be available on the website "www.ceekerala. org" and on other websites to be notified by the CEE.
9.7 .8 (i) The rank list of the Medical Entrance Examination will be published on or before $\mathbf{2 5}^{\text {th }}$ May 2016.
(ii) The rank list of the Engineering Entrance Examination will be published on or before $25^{\text {th }}$ J une 2016.
9.7.9 Candidates seeking admission to Architecture course have to appear for the National Aptitude Test in Architecture as mentioned under Clauses 1.4, 6.2.3, 9.2.7 \& 9.7.5. Such candidates should submit:
(i) Photocopy of the mark list of their qualifying examination attested by a Government Gazetted Officer, (ii) An attested copy of the original 'NATA' score sheet and (iii) A filled-in Proforma to be downloaded from the website of the CEE (www.cee.kerala.gov.in), to the CEE so as to reach him on or before 05.06.2016. Detailed notification in this regard will be issued by the CEE, in due course.
The rank list for Architecture will be published after this date. The marks of the qualifying examination and NATA score received on or before 05.06 .2016 alone will be considered for preparing the Architecture Rank list. The rank list so published will be final and the marks received subsequently will not be considered under any circumstances. The CEE will not be responsible for any delay in the publication of the result of the qualifying examination or NATA.

### 9.7.10 (a)Validity of the rank lists published by the CEE:

(i) Engineering Rank list will be valid till 15.08 .2016 as per the orders of the Hon'ble Supreme Court of India dated 13.12.2012 in CA No. 9047 \& 9048 of 2012.
(ii) Medical Rank list will be valid till 31.10.2016
(iii) Architecture Rank list will be valid till 15.08.2016
(iv) Ayurveda Rank list will be valid till 30.10. 2016
(b)Weeding out Rule: The records of the KEAM Entrance Examination will be preserved only till the $31^{\text {st }}$ October of the year of conduct of examination.

### 9.7.11 Publication of Provisional Category Lists:

(a) Separate provisional category lists will be published for Community reservation, Special reservation, Persons with Disabilities, etc.
(b) There will be separate category lists based on Engineering, Architecture, Medical and Ayurveda rank lists. For MBBS and BDS Courses, a separate Category-wise list will be published based on the guidelines of the MCl .
Candidates are advised to verify the various merit/category lists published by the Commissioner for Entrance Examinations, and satisfy themselves regarding their position in the list, such as, inclusion under different categories, eligibility for communal/special reservation, etc. Complaints, if any, in this regard may be sent to the Office of the Commissioner for Entrance Examinations, within the period specified in the publication of the lists concerned, for necessary action. Revised Category list will be published after considering the objections/ complaints, filed by the candidates. Complaints received thereafter will not be entertained under any circumstances.

## Complaints against category list are to be filed within the period specified in the

 publication of the category list.(c) Admission to the Entrance Examinations, and the rank obtained in the Entrance Examinations or inclusion in the merit lists or allotment, will not entitle the applicant for admission to the course, unless the applicant satisfies the rules regarding the eligibility for admission as laid down in the Prospectus. Furnishing of false particulars would result in the forfeiture of the candidature, as well as cancellation of admission to the course, and in addition, will attract the relevant provisions of the Criminal Laws of the Land. If any information or documents furnished along with the printout of the application by a candidate are found false or ineligibility for admission is detected before or after admissions, candidature of the applicant will be withdrawn and admission, if any, given will be cancelled.
10. SPECIAL INSTRUCTIONS TO THE CANDIDATES APPEARING FOR THE ENTRANCE EXAMINATIONS 2016
Note: Read the following instructions carefully. Failure to observe instructions may upset the candidate's performance.
10.1 Reporting for the Examination:
(i) Candidates should bring Admit card, ballpoint pen (either blue or black ink) and a card board/ clip board for the Examination.
(ii) Candidates will not be permitted to take items such as pencil, eraser, correction fluid, calculator, logarithm table, electronic gadgets, mobile phones etc. into the examination hall.
(iii) Candidate should be present at the examination hall, 30 minutes before the prescribed time for the commencement of the examination.
(iv) No candidate will be permitted to enter the examination hall, 30 minutes after the commencement of the examination.
(v) Candidates will be permitted to leave the examination hall only after completion of the examination.

### 10.2 Question Paper:

10.2.1 The question papers will be given in the form of a question booklet. A candidate will be given the question booklet before the actual time prescribed for the commencement of the examination, to enable him/her to acquaint himself/herself with the instructions to be followed.

FACING PAGE LAYOUT OF QUESTION BOOKLET (Engineering \& Medical)

| WARNING:Any malpractice or any attempt to commit any kind of malpractice in <br> the Examination will DISQUALIFY THE CANDIDATE. |  |  |  |
| :--- | :---: | :---: | :---: |
| PAPER |  |  |  |
| Version Code | Question Booklet Serial Number |  |  |
| Time : 150 Minutes | Number of Questions : 120 | Maximum Marks : 480 |  |
| Name of Candidate |  |  |  |
| Roll Number |  |  |  |
| Signature of Candidate |  |  |  |
|  |  |  |  |

10.2.2 Each question paper will have 4 versions as detailed below:

## Engineering Entrance Examination:

Paper I - Physics \& Chemistry
Paper II - Mathematics
Medical Entrance Examination:
Paper I - Chemistry \& Physics
Paper II - Biology

Versions - A1, A2, A3 \& A4.<br>Versions - B1, B2, B3 \& B4.

Versions-A1, A2, A3 \& A4.<br>Versions - B1, B2, B3 \& B4.

10.2.3 The question booklet version will be printed on the top left margin of the facing sheet of the question booklet.
10.2.4 If the Roll Number ends in an odd number, then the candidate should get a question booklet marked A1/B1/A3/B3. If the Roll Number ends in an even number, then the candidate should get a question booklet marked A2/ B2/ A4/ B4.
10.2.5 On receipt of the question booklet the candidate should ensure that the Version Code printed in the Admit Card and in the question booklet are the same.
10.2.6 If the candidate gets a question booklet where the version does not match the Roll Number as stipulated in 10.2.4, he/ she should draw the attention of the invigilator immediately, and get it replaced by a version that matches the Roll Number.
10.2.7 The question booklet serial number is printed on the top right margin of the facing sheet. If the question booklet does not bear a serial number, get it replaced by a new question booklet of the same version having a booklet number printed.
10.2.8 Candidate must write his/ her name and roll number in the space provided in the Question booklet. The Roll Number should be written carefully. The column for the signature of the candidate should also be filled in (The signature should be identical with the signatures in the admit card and in the attendance sheet).
10.2.9 The question booklet will be sealed at the middle of the right margin. The candidate should not open the question booklet, until an indication is given by the invigilator to start answering at the scheduled time.
10.3 Answer Sheet:
10.3.1 Separate answer sheet (OMR Answer Sheet) having a copy of the original OMR sheet attached to it, will be given to mark the answers. Candidates should not detach the copy of the OMR sheet from the Original during the course of Examination. All impressions made in the original OMR sheet will be carried over to the copy attached. Hence candidates, while making entries in the OMR sheet and while answering, should ensure that the copy of the OMR is always aligned with the original OMR sheet. Any change in alignment can result in variation of the position of the entries in the original and copy of OMR sheets. If any candidate detaches the copy before the conclusion of the examination, his/ her candidature is liable to be cancelled.
10.3.2 The evaluation of the answer sheet of objective type papers will be done using the OPTICAL MARK READING (OMR) System. Hence the answer sheet (OMR answer sheet) is designed to suit this system.
10.3.3 A specimen copy of the OMR answer sheet is included in the Prospectus. (Annexure XXIV). Each answer sheet will be having a unique pre-printed 'BARCODE' that will be used as a secret code against which the evaluation takes place. Candidates should not tamper with the BAR CODE. If a candidate tampers, mutilates or damages the barcode, it will be treated as malpractice as per Clause 10.10 and he/ she will be liable for punishment as per Clause 10.10.2. The answer sheet in respect of such candidates will not be subjected to valuation.
10.3.4 IMPORTANT: Extra care is needed while handling the OMR Answer sheet in the following respects.
DO NOT: (i) Pin or staple (ii) Punch or tag (iii) Make holes anywhere (iv) Wet or soil (v) Tear or mutilate (vi) Wrinkle or fold the OMR Answer Sheet.
10.4 Filling in the OMR Answer Sheet:

## IMPORTANT

10.4.1 All entries in OMR answer sheet are to be made with blue or black ink BALLPOINT PEN only.
Marking with fountain pen, gel pen, sketch pen or pencil is not permitted. Use of any ink of colour other than blue or black is not permissible.
10.4.2 The answer sheet has two parts - "CANDIDATE'S DATA" on the left side and "ANSWERS" on the right with a thin perforation in between, length-wise. Fill in all the entries on the left side (Candidate's Data part) before beginning to answer questions.
(a) CANDIDATE'S DATA PART: (Left side of the sheet)

Fill in the boxes and the appropriate bubbles with blue or black ink ballpoint pen.
i) Version Code: Fill in and mark the Version Code as given in the Question Booklet with blue or black ink ballpoint pen. The Version Code should be entered without any corrections or overwriting.
ii) Roll Number: Fill in and mark the Roll No. as given in the admit card with ballpoint pen. The Roll number should be entered without any corrections or overwriting.
iii) Question booklet SI. No. has to be entered as given in the top right side of your question booklet.
iv) Name: Fill up the item correctly and legibly. Name is to be entered as given in the admit card with ballpoint pen.
v) Fill up the Roll Number again.
vi) Name of subject: Enter name of the subject.
vii) Signature of the Candidate: The candidate has to sign in this box and should be identical with the signature affixed in the admit card and attendance sheet.
The item for signature of the invigilator will be filled in by the concerned person.
(b) ANSWER PART OF THE OMR SHEET: (Right side of the sheet)

Do not write your roll number or name or make any stray marks on this part of the sheet. Do the marking for answers only in the spaces provided (bubbles).
10.4.3 Method of marking:
(a) The Answer part of the OMR sheet (right side) consists of ovals, known as 'bubbles'. USE ONLY BALLPOINT PEN (BLUE OR BLACK INK) for filling (marking) these bubbles. Marking with any other colour or with sketch/ gel pen is not permitted.
(b) Each question will have five answers marked (A), (B), (C), (D) and (E). The most appropriate answer will have to be selected. Thereafter, using ballpoint pen (blue or black ink) mark the bubble corresponding to the most appropriate answer. For example if the answer to question 2 is C, bubble C has to be darkened as shown:

(c) Mark only one bubble for each question. The bubble should be filled completely and must be dark.
(d) Here are some wrong methods of marking answers, such as
Use of Tick-mark
Use of Cross-mark
Use of Dot
Use of Line-mark
Partially or half filled bubble
Marks outside the bubble
More than one blackened bubble

In all these cases mentioned above, though the candidate may have given the correct answer, it may not be read by the scanner because of the wrong method of marking the answer.
(e) The bubble should be filled completely. Candidates are advised not to make any special effort to mark bubbles artistically.
(f) Warning: Marking once made will be final.
(g) Any attempt to erase the mark once made will leave smudges or marks on the bubble, which will treat it as a valid mark.
(h) Any fresh mark made after attempting erasure of an already marked bubble will lead to multiple marks with the consequent penalty of negative marks.
10.5 The question booklet for each paper will be supplied to the candidate only five minutes before the actual time prescribed for the commencement of the examinations. The candidates should take care to mark the necessary entries, in the question booklet as well as on the OMR answer sheet immediately before beginning to answer the questions.
10.6 Immediately after the commencement of the examination, the candidate should check that the question booklet supplied is of the correct version and that it contains all the 120 questions in serial order. The question booklet should not have unprinted or torn or missing pages in it. If the question booklet does not agree with the above, the matter should be brought to the immediate attention of the invigilator. In such cases the invigilator should take immediate action to rectify the same by issuing the candidate a question booklet of the same version. The question booklet initially issued will be taken back only after the replacement is made.
10.7 Candidates are warned that they should enter only the necessary information as required in the OMR answer sheet (on the left part). Any additional information, which is not required and which may help to identify the candidate (made in any part of the OMR sheet), will be treated as malpractice activity as per Clause 10.10 and will be dealt as per Clause 10.10.2.
10.8 Candidates will get the copy of the OMR sheet after the completion of the examination. The copy which is attached to the Main OMR sheet will be detached by the Invigilator in the presence of the candidate after the completion of the examination. The candidates will be permitted to carry this copy with them after the Examination.
10.9 Any mistake in filling up the data part of the OMR sheet or in marking the answers will affect the valuation of the script adversely.
10.10 WARNING AGAINST MALPRACTICE

Malpractice is an activity that allows a candidate to gain an unfair advantage over other candidates. It includes, but not limited to:
a) Having in possession of papers, books, notes, correction fluid, whitener, correction pen, blade, pencil, eraser, electronic devices or any other material or information relevant to the examination concerned;
b) Paying someone to write examination (impersonation) or prepare material;
c) Breaching examination rules;
d) Assisting another candidate to engage in malpractice or attempting to do so;
e) Contacting or communicating or trying to do so with any person, other than the Examination Staff, during the examination time in the examination hall;
f) Taking away the answer sheet out of the examination hall;
g) Threatening any of the officials connected with the conduct of the examination or threatening any of the candidates;
h) Using or attempting to use any other undesirable method or means in connection with the examination;
i) Manipulation \& fabrication in online documents viz. Admit card, Allotment letter, Data sheet etc;
j) Forceful entry in Examination Hall with malafide intentions;
k) Possession of Calculators, Slide Rules, Log Tables, Geometry Box, Pencil box, Electronic Digital Watches with facilities of calculators, mobile phones, pagers or any other electronic gadget which are not allowed inside the Examination Hall;
I) Tampering of Barcode in the OMR sheet or mutilation of OMR sheet or marking unnecessary information on OMR.
m) Affixing of fabricated photograph on the application form;
n) Affixing of fabricated thumb impression on the application form;

Note: Parents/ Guardians are advised to ensure that their ward does not indulge in unfair activities/ malpractices which breach the examination rules. If any candidate is found to indulge in any such activity he/ she shall be liable for punishment as per Clause 10.10.2.

### 10.10.1 GUIDELINES TO CHIEF SUPERINTENDENT

In the event of observing malpractice activity in the examination hall by a candidate, the candidate shall not be allowed to continue to write the examination. The examination Question Booklet, OMR and admit card of the candidate who indulges in the malpractice activity along with the materials in possession at examination hall which the candidate used for malpractice at the examination hall such as Calculators, Electronic Digital Watches with facilities of calculators, mobile phones, pagers or any other electronic gadget etc shall be confiscated and reported to the CEE with a report signed by the Invigilator, Chief superintendent and Observer in a sealed cover through the CEE representative/ Liaison Officer.

### 10.10.2 PUNISHMENT FOR MALPRACTICE

If a candidate is found to have indulged in any of the malpractice activities or similar practices, during the course of Kerala Engineering, Agriculture, Medical Entrance Examination-KEAM 2016, before or later on, shall be deemed to have committed malpractice at examination and his/ her candidature in the KEAM entrance examination will be cancelled. Such candidates shall be debarred from appearing the entrance examination conducted by CEE for not less than two years and shall also be liable for criminal action and /or any other action as deemed fit by CEE. Decision of the CEE in this regard shall be final.
IMPERSONATION
If during the Kerala Engineering, Agriculture, Medical Entrance Examination-KEAM 2016 or at any stage of allotment/ admission process, it is found that candidates appearing in the Kerala Engineering, Agriculture, Medical Entrance Examination-KEAM 2016 or in the admission process at allotted College have indulged in any case of impersonation i.e. not matching the photograph/ signature/ thumb impression/ documents of the candidates etc. he/ she shall be handed over to the Police by the Chief superintendent/Liaison Officer / Principal as the case may be and the cases shall be dealt as per the Indian Penal Code in this matter for further investigation. The matter shall also be reported to the CEE by the Chief Superintendent/ Liaison Officer / Principal in writing.
Such candidates will be debarred permanently from appearing for the KEAM Entrance Examination conducted by the CEE in future in addition to the cancellation of his/her candidature in the KEAM entrance examination of the year.
11. CENTRALISED ALLOTMENT PROCESS (CAP) \& ONLINE SUBMISSION OF OPTIONS

The Centralised Allotment Process will be done through the Single Window System (SWS) to give allotments to the various courses and colleges under the Engineering/ Architecture/ Medical streams in the State, based on the options submitted by the candidates who have been included in the rank list of the Engineering/ Architecture/ Medical/ Ayurveda courses for the year 2016, conducted by the Commissioner for Entrance Examinations (CEE), Kerala. This is a system of 'Allotments through Online Submission of Options'. The options are willingness of a candidate who qualified with a rank in the rank lists of KEAM-2016 to join a course-college combination prioritized as per his/ her aspiration and desire subject to the conditions specified in Clauses 6 and 9.7.5. The CAP through which the Options are registered is a simple and transparent process of allotment to the Professional Degree Courses and it gives the candidate opportunity to exercise his/ her options for courses and colleges of his/ her choice conveniently in the order of his/ her preference considering all those available to be chosen from. The allotments will be strictly based on the options exercised, the rank obtained and eligible reservations of the candidate. Candidates should register options only to those courses/colleges which they are sure to join on allotment. If the candidate fails to remit fee/join the college, he/she will not be eligible for any further allotment in any stream.
11.1 The online Centralized Allotment Process 2016 will be done by the Commissioner for Entrance Examinations (CEE), Kerala, with the technical support of the National Informatics Centre (NIC).
11.2 Seats in Government/ Aided/ KAU/ KVASU/ KUFOS/ Self Financing Colleges to be allotted by the Commissioner for Entrance Examinations, will be included in the CAP and will be done as per the provisions of allotment.
11.3 (a) Seats for the Engineering, Architecture, MBBS, BDS, Ayurveda, Homoeo, Siddha courses and seats for the Agriculture \& Forestry, Agricultural Engineering and Food Engineering Courses under the Kerala Agricultural University, Fisheries course under Kerala University of Fisheries \& Ocean Studies, and Veterinary \& AH, Dairy Science \& Technology and Food Technology courses under Kerala Veterinary \& Animal Sciences University will be available for allotments by CEE through the CAP.
(b) The courses for Option Registration under CAP are classified as Engineering Stream and Medical Stream. All courses listed in Clauses 1.3.1 and 1.3 .2 are included in Engineering Stream. All courses listed in Clauses 1.3.3, 1.3.4, 1.3.5 and 1.3.6 are included in Medical Stream.
(c) The candidates are eligible to register option to the courses of any stream or both streams provided they are qualified with a rank in the respective rank lists of KEAM-2016 as per the conditions specified in Clauses 5, 6 and 9 of the KEAM-2016 Prospectus.
(d) Only female candidates can register options to the courses in Women Colleges under CAP if they are otherwise qualified as per various Clauses of the KEAM-2016 Prospectus.

### 11.4 Rules and regulations governing allotments through submission of options:

11.4.1 Candidate to register options: Candidates included in the Engineering, Architecture, Medical and Ayurveda Rank lists 2016, will have to register their options in the stream(s) concerned as prescribed under Clause 11.5, for being considered for allotments to the courses and colleges under the respective stream(s).
11.4.2 Registering Options: Options can be registered only through the website, "www.cee.kerala.gov.in". Candidates will have to register their options in single stream or multiple streams (based on their eligibility) in the 'Option Registration Page' accessible through the 'Candidate Portal' within the stipulated period of time. Candidates should access the 'Option Registration Page' and follow the instructions given therein and as described in Clause 11.5, to register their options for courses and colleges. Options submitted to the CEE by Fax, Post, Hand delivery etc., will not be processed or considered on any account for allotment of seats.
11.4.3 Facility for Registering Options: Candidates can register their options within the time schedule specified, using any computer having internet facility. Candidates who do not have access to Internet facility can use the facility provided free of cost, by the Government at various centres across the state. 'Option Facilitation Centres' (OFC) and 'Help Desks' (HD) will be opened across the state during a specified period for the candidates who need assistance for registering their options. The list of OFCs and HDs will be notified in due course. The Option Facilitation Centres and Help Desks will be functioning only during the period specified.
11.4.4 Time schedule for registering options: The facility for registering of options will be available only during the period specified in the notifications to be issued by the CEE. Wide publicity will be given through electronic and print media regarding the schedule and related matters. The facility will be withdrawn once the time period is over and candidate will not have access to this facility after this time period. A candidate, not registering his/her options as per the time schedule announced, will not be considered for allotments under his/her eligible streams against any of the seats available then, irrespective of his/her rank. Requests for extension of time will not be entertained under any circumstances for registering options under any of the streams.
11.4.5 Registering of options in respect of candidates included in different Rank Lists (Medical/Ayurveda/Engineering/Architecture): A candidate included in different rank lists, can register options of different streams simultaneously based on his/ her order of priority of courses and colleges. All options available to the candidate, based on the streams he/ she is eligible for, can be registered in a single registration. For example, a candidate included in the Engineering and Medical rank lists can register his/her options in the two streams together, within the specified period of time.

There is no separate time schedule for registering options under each of the streams. All options to all eligible streams will have to be registered as per the time schedule. No extension of time will be granted under any circumstances for registering options under any of the streams.
11.4.6 Eligibility for registering options: Only those candidates included in the different Rank Lists published by the CEE for 2016 based on KEAM-2016 are eligible to register their options in the stream concerned. Moreover, the candidates registering their options should satisfy all the eligibility conditions with regard to Nativity (Clause 6.1), Academic qualifications (Clause 6.2), Age (Clause 6.3), etc., of the Prospectus for admission to Professional Degree Courses 2016. Academic eligibility should be satisfied on the date of admission for various Courses. Principal/Head of the Institution will be personally responsible for verification of eligibility condition as prescribed in the Prospectus, when the candidate reports for admission. Only those candidates who are found to be qualified as prescribed shall be admitted to the college/ institution irrespective of the fact that he/ she has an allotment through the CAP.
11.4.7 Essentials for registering options: Candidates should have particulars such as Roll Number, Application Number, Key Number and Password of KEAM-2016 assigned to them in order to register their options in the website.

### 11.5 Procedure for Registering Options:

Any candidate, who wishes to register his/ her options, should have the 'Roll Number', 'Application number', 'Key number' and 'Password' readily available with him/her. The candidate must also have access to internet facility. The candidate should follow the procedure given below for registering options:
(i) Log on to the 'Candidate Portal' through the website www.cee.kerala.gov. in using Roll Number and Application Number.
(ii) Log on to the 'Option Registration Page' using Key Number and Password.
(iii) Register Options.
(iv) Save the Options registered.
(v) View and Print the List of Options registered.
(vi) Log off from the 'Candidate Portal'.
11.5.1 Accessing the website: The candidate can access the website, 'www.cee.kerala.gov.in' from any computer having internet facility. The platform can be Windows or Linux based and a recent version of Mozilla Firefox is the recommended browser to be used.
11.5.2 Logging on to the 'Candidate Portal': In order to log on to the 'Candidate Portal', click the link 'KEAM 2016-Candidate Portal' given in the front page of the website, and submit the Roll number and the Application number correctly.
(i) Roll number: This is the six-digit Number allotted by CEE to the candidate which is given in the Admit Card of KEAM-2016.
(ii) Application number: This is the seven-digit number printed on the left top part of the facing sheet of the Application submitted by the candidate for KEAM 2016. This is also printed in the Admit Card issued by the CEE to the candidate.
11.5.3 Logging on to the 'Option Registration Page': In order to log on to the 'Option Registration Page', click the link 'Option Registration' given in the Candidate Portal, and submit the Key number and the Password correctly.
(i) Key Number: The Key number is the 16 digit alpha-numeric code provided on the Security Card. The Key number should not be disclosed to others who may misuse this, for which the CEE/ Government will not be responsible.
Note:- Notification will be issued with regard to the issue of Key Number to the candidates who have paid Application fee through Demand Draft.
(ii) Password: The Password to be used is same as the one created and used during the online application submission stage.
Failure to provide the correct password and/ or the Key number will stop the candidate from proceeding to the Option Registration Page. It is the responsibility of the candidate to keep the password and the Key number safe and secure. In case, assistance is necessary for logging on to and accessing the Option Registration Page, the candidate may contact an Option Facilitation Centre (OFC). If the candidate cannot remember the password, he/ she can reset it through the 'Forgot Password' link, given in the Candidate Portal. Similarly, a 'Forgot Key Number' link is also given in the Candidate Portal. If the candidate is unable to reset the password or regain the Key number using the online method, he/ she can visit an OFC with the Admit Card and submit the filled in proforma for requesting password reset or Key number, as the case may be. The proformas for requesting password reset and Key number can be obtained by clicking the above mentioned links.

Roll number, Application number and Key number are candidate specific and hence are usable for the concerned candidate only. Disclosure of the Key Number and/or the Password to others who may misuse them may result in tampering of the options made by the candidate. The CEE/ Government will not be responsible for any such eventuality.
11.5.4 Courses and Colleges available for registering options: A list of Courses (Course List) and Colleges (College List) for allotments through the CAP will be available in the Home page of the candidate based on the stream(s) the candidate is eligible for. The 'Course List' link when clicked will show all the courses in the stream concerned with their two letter codes. For example, a candidate included only in the Engineering stream will see the list of Engineering courses, Architecture course and their codes (Eg:- AE - Applied Electronics and Instrumentation, EC Electronics and Communication Engineering, AR - Architecture etc.). Similarly, a candidate in the Medical Stream, will see the list of Medical \& Allied courses with their two letter codes (Eg:- MMMBBS, MD-BDS, BA-BAMS etc.). A candidate included in Engineering and Medical Rank Lists will see a list of Engineering and Medical \& Allied courses and their two-letter codes. The 'College List'
link when clicked will show all the Colleges under the stream(s) applicable to the candidate and their three-letter codes (Eg:- TVE-College of Engineering, Thiruvananthapuram, TVM-Government Medical College, Thiruvananthapuram etc.). A candidate may examine this list further to see the number of seats for each category in these colleges by clicking on the College Code. An overall idea of the Courses and Colleges and their Codes will help the candidate to register his/ her options without any difficulty.
11.5.5 Procedure for registering options in his/her Option Registration Page: By entering the option number for a course-college combination the candidate can fix his/ her preference numbers for the course-college combinations displayed in the Option Registration Page. Here all the eligible options of the candidate will be displayed course-wise and the candidate is expected to enter his/ her preference number for a particular combination.
11.5.6 Registering of the Options and saving/revising the Options registered:
(i) All eligible options of the candidate will be displayed on the Option Registration Page. The candidate may follow the directions given therein to register the options. The data entered may be saved regularly by clicking the 'Save' button, so that the data already entered is not lost due to unexpected reasons. The candidate should enter only those options in which he/ she is interested. Candidates should also note that he/ she will be considered for allotment only to those courses and colleges opted by him/her. So, a candidate who has not opted for a course-college combination will not be considered for allotment for that combination. Existing options, registered by the candidate and available in the Option Registration Page, can be cancelled by entering the number ' 0 ' against that particular option to be cancelled and by clicking the 'Update' button. All options registered by the candidate will be processed. If a candidate gets allotted to a particular seat, based on his/her option, he/ she is bound to accept it, failing which, he/ she will lose that allotment as well as his/ her claims for any seat in any stream. Such candidates will not be eligible for any further online allotment in any stream.
(ii) Option Worksheet facility: If a candidate experiences any difficulty in entering the data directly, he/ she may first take a printout of the worksheet showing all the options he/ she is eligible for, by clicking on the 'OPTION WORKSHEET' or 'DETAILED OPTION WORKSHEET' link on the page. The desired entries may be made on this work sheet and the same may be used for registering the options on the website. The preference numbers may be fixed using this worksheet and the data may be entered in the system subsequently. A candidate has the facility to modify or rearrange his/ her earlier options before the last date and time fixed.
11.5.7 Viewing and Printing of the Option List based on the options registered: Once the candidate completes the option entry, he/ she can view his/ her options by clicking on the link provided. An option list will be generated and the candidate can take a printout of the same and keep it for future reference. If the candidate wants to change his/ her options already registered, he/ she may revise the options as desired and ensure that the option list has come as per his/ her preferences.
11.5.8 Logging off from the Option Registration Page: Once the candidate is satisfied with the options registered, he/ she may 'Log off' the system by clicking on "logout" link. The process of 'Registration of Options' is complete when the candidate logs off. This action is compulsory for preventing the misuse of his/her Option Registration Page by strangers.
11.5.9 Rearranging option priority: A candidate may change his/ her option priority any number of times within the time schedule permitted. The priority of options registered at the time of closing of the facility for registering options alone will be considered for processing. No candidate will be allowed to register options afresh to any stream at any stage after the stipulated time as notified by the CEE. The option list once finalized cannot be augmented after the stipulated time for registering options. But the modification of the option list will be allowed only for cancellation/ deletion and for re- arrangement of priority of options at the time specified in the notification by the CEE.
11.5.10 Trial Allotments: The CEE will conduct Trial Allotment before the closure of the time fixed for registering options during the $1^{\text {st }}$ Phase of allotment to give an idea about the chances of getting allotment to a course and college based on options and rank of the candidate. The trial Allotment does not guarantee that the candidate will get allotment in a college or course.

### 11.6 Processing of Options and Allotment:

11.6.1 Allotment Schedule: After the period earmarked for registering options, they will be processed and the allotment for all courses will be published on the website, "www.cee.kerala.gov.in", on the date notified by the CEE. The allotment memo, the printout of which can be taken from the website, will show the college to which the candidate is allotted and the fee to be remitted for the course allotted. The schedule of allotment will be notified separately. Necessary notifications will be issued by the CEE.
11.6.2 Remittance of Fee: The prescribed fee for the Course will have to be remitted by the candidate to the Account of the CEE in specified branches of State Bank of Travancore (SBT) to be notified by the CEE, as per the time schedule prescribed. After the candidate remits the fee in the first allotment, a fee receipt will be issued by the bank as token of allotment and remittance of fee.
Those candidates who do not remit the fee on or before the date prescribed for the same will lose their allotment as well as the eligibility for further allotments in all streams. The second allotment will be published on the date specified. Candidates who have not received any allotment in the first allotment and who have received an allotment in the second allotment will have to remit the prescribed fee for the course allotted. If a candidate has a different allotment than the one received in the first allotment, the fee for which is higher than that remitted as per the first allotment, he/ she will have to remit the difference in fee. The amount to be remitted in this manner will be shown in the allotment memo of the candidate. If the fee for the course allotted in the second allotment is less than or same as the fee remitted as per the first allotment, no further remittance is to be made by the candidate. The same process will be repeated in the subsequent allotments.
11.6.3 Admission for all courses: Candidates allotted to courses, and who remit the fee as prescribed, should take admission in the college allotted as per the schedule prescribed by the CEE. Candidates who do not take admission will lose their allotment as well as the claims in all streams. The candidates are liable to pay admission fee as prescribed by the University concerned at the time of admission. If a candidate who got admission in any course, in any allotment of any phase under CAP conducted by the CEE, discontinues the course by taking TC to join another college or course which is not the part of CAP or for any other reasons not related to CAP will lose their claims in CAP and also their higher order options will be cancelled. Such candidates will not be considered for further allotment process under CAP.

### 11.6.4 Online Option Confirmation:

Candidates who are having valid options and who are willing to participate in the second allotment/subsequent allotment for a particular stream/streams (as notified) have to log in to his/her Option Registration Page and confirm their options by clicking the 'Confirm' button available in his/ her Option Registration Page. Candidates can delete their unwanted options or alter the priority of existing options only after the online option confirmation. A candidate who does not confirm the higher order options by clicking the' Confirm' button available in his/ her Option Registration Page, his/ her higher order options belonging to the stream(s) included in that phase will not be available in subsequent phases also. However, his/ her existing allotment shall be retained, subject to the conditions of Clause 11.6.2 and 11.6.3.
(i) After each allotment, the options below the 'allotted one' of the candidate will automatically be removed from the option list of the candidate. For example, if a candidate had registered 45 options in all, and if he/ she is allotted his/ her $34^{\text {th }}$ option, all options from 35 to 45 will be removed from the option list. Since the $34^{\text {th }}$ option is the allotted one, it will not be seen in the option list. Options from 1 to 33 only will remain valid and will be considered for future allotments.
(ii) If a candidate is satisfied with an allotment and does not want to be considered against his/ her remaining options, he/ she will have the facility to cancel all the remaining options. He/ she may cancel options in a particular stream alone. He/ she may also cancel specific options among the remaining options as per his/ her desire. The candidate will also have the facility to alter the priority of the remaining options. But the candidate will not be permitted to register any fresh options to the existing ones.
(iii) The facility for confirmation and cancellation/ deletion/ alteration will be available for a specified period of time as notified, after which the facility will be withdrawn. A candidate retaining all or any of the options after each allotment is bound to accept the next allotment, if any, given to him/her. If the candidate fails to accept the allotment, he/ she will lose all the allotments/ admission and will not be considered for any further online allotments under any stream.
(iv) Forfeiture of the claims in CAP: The claims in Centralised Allotment Process conducted by the CEE will be cancelled under the following reasons.
(i) Non payment of tuition fee as specified in the allotment memo.
(ii) Non joining of the course/ college within the stipulated time as specified by the CEE.
(iii) Discontinued with TC to join courses other than the courses allotted by the CEE or for any other reason.
11.6.5 Further Allotments: Details regarding further allotments will be notified by the Commissioner for Entrance Examinations.
11.6.6 Last Rank Details: The last rank details of the allotment will be published after each allotment and will be made available on the website. The last rank given will be the rank of the candidate and not the position in the category list.

### 11.6.7 Other Rules related to registering of Options:

(i) Candidate can register all the available options if he/ she desires so. However, it is not compulsory that the candidates should exercise all the options.
(ii) A candidate will not be allotted a seat in a course of a college if he/ she has not opted the course-college combination during option registration process of CAP-2016.
(iii) A candidate is bound to accept an allotment as per the priority registered in the Option list and he/ she has to surrender the seat already occupied by him/her, if he/ she is allotted based on options furnished against arising/future vacancy. Request to retain the existing admission after an allotment is made, based on the option registered, will not be considered under any circumstances.
(iv) Failure to report for admission in the allotted institution, after remitting the required fee within the stipulated time will result in the forfeiture of his/ her allotment to that course and for any course in any stream. He/ she will not be considered for online allotment to any future/ arising vacancies in any stream.
(v) For each phase of CAP 2016 subsequent to the initial phase, confirmation of the higher order options by logging in to the Option Registration Page and clicking the 'confirm' button is mandatory to participate in that phase of allotment even if no cancellation/rearrangement of options is desired. Non-confirmation of higher order options for a particular phase of CAP will lead to automatic deletion of higher order options belonging to the stream(s) included in that phase, making them unavailable for the subsequent phases also.

### 11.6.8 Allotments as per guidelines:

(i) As per the guidelines of the Medical Council of India and Dental Council of India, no student shall be admitted to Medical/ Dental colleges after September $30^{\text {th }}$ of each year. Hence no allotments for 2016-17 will be made to the MBBS/ BDS courses after 30.09.2016.
(ii) As per the guidelines of Central Council of Indian Medicine, allotments to BAMS, BSMS and BUMS courses for 2016-17, will not be made after 30.10.2016. Similarly, no allotments to the BHMS course for 2016-17 will be made after 31.10. 2016, as per the guidelines of Central Council of Homoeopathy.
(iii) Allotment/ Admission to Engineering courses will not be made after $15^{\text {th }}$ August of every year vide judgment of the Hon'ble Supreme Court of India dated.13.12.2012 in the Civil Appeal No. 9047 and 9048 of 2012.
11.6.9 Spot Allotment: Spot allotment/ admission for filling up the remaining vacant seats, if any, may be conducted after the completion of the online allotment process. A qualified candidate included in the rank lists concerned is entitled to attend the Spot allotment/ admission Process. Candidates who have obtained admission in Government Merit seats for a course shall not be eligible to participate in the Spot Allotment for that particular course. But a candidate admitted in Government Merit Seat in a Government Controlled Self Financing College is allowed to participate in Spot Admission for a Government College for any course. The courses under Engineering stream are listed in Annexure II (1) (b). The Commissioner for Entrance Examinations is authorized to issue necessary orders regarding Spot Admission/ Allotment in due course.

### 11.7 Post Allotment Activities:

11.7.1 Reporting at the College: Candidates who get allotment will have to report before the Principal/ Head of the Institution concerned for admission on the dates notified with the following documents:
(a) Admit Card of the Entrance Examination 2016.
(b) Certificate to prove date of birth.
(c) Transfer Certificate from the Institution last attended and Conduct Certificate.
(d) Original mark list of the qualifying examination (Higher Secondary or equivalent) and the Pass certificate of the qualifying examination (if issued).
(e) Eligibility certificate from any University in Kerala, in the case of candidates who have passed a qualifying examination other than Higher Secondary Examination/ Vocational Higher Secondary Examination conducted by Government of Kerala or the examination conducted by CBSE and CISCE.
(f) Migration Certificate, if applicable.
(g) Physical Fitness Certificate in the relevant format given in Annexure XVII (a) or XVII (b) of the Prospectus 2016.
(h) Receipt of fee remitted in the Bank.
(i) Mark Data sheet of the Entrance Examination.
(j) Allotment Memo issued by the CEE.
(k) Any other documents required by the Head of Institution.

The 'fee' as prescribed by the University concerned to the course will have to be remitted by the candidate at the time of taking admission in the college.

## The candidate is specifically instructed not to inform his/her Key Number and Password to the institutions concerned.

11.7.2 Verification of Documents: The Principal/ Head of the College or Institution shall be personally responsible for verification and satisfaction of the correctness of the records produced by the candidate at the time of seeking admission in the college/ institution. The University concerned shall also verify the records produced by the candidate who got admission in the college/ institution by deputing special teams and submit a report to Government within 10 days from the last date fixed for final allotment of seats.
11.7.3 Failure to pay the tuition fee/report for Admission: Candidates who do not pay the tuition fee or do not take admission on the prescribed date will lose their admission. They will not be considered for any further online allotments under any stream.
11.7.4 Cancellation of Higher Options after joining a College: Candidates who join the college on the dates specified can cancel their remaining options fully or partially or change the priority of their remaining options before the dates prescribed and as specified in clause 11.6.4. A candidate interested in subsequent allotment must login to his/ her Option Registration Page and click the 'confirm' button available therein and can delete their unwanted options or alter the priority of existing options.

### 11.8 Seat allotment protocol in Government/Aided/KAU/KVASU/KUFOS Colleges:

11.8.1 Admission \& Allotment: A distinction will be made between 'Admission' to a course and seat 'Allotment' to a college. Admissions are offered through allotment of seats under CAP. Allotments will be first offered under State Merit (SM) even to candidates having eligible reservation benefits as per mandatory reservation so long as vacancies are available under the same, statewide. Only after all the 'State Merit' vacancies are exhausted across the State, seats will be offered under the candidate's eligible reservation quotas under mandatory reservation. (Refer Clause 5)

### 11.8.2 State-wide Principle of Allotment in Government/Aided/KAU/KVASU/KUFOS Colleges:

Allotment of seats in Government/Aided/ KAU/KVASU/KUFOS Colleges is governed by a 'statewide' principle of selection approved by the Government of Kerala in G.O.(MS) No.122/98/H.Edn. dated 07.10.1998. According to the G.O., 'Candidates of the reserved category who will otherwise come in the open merit list will be allotted to the college of his choice provided he would have been eligible for allotment to that college if he was treated as candidate coming under reservation quota. While a reserved category candidate entitled to admission on the basis of his merit will have the option of taking admission to the colleges where a specified number of seats have been kept reserved for reserved category but while computing the percentage of reservation he will be deemed to have been admitted as an open category candidate and not as a reserved category candidate'. As per the above principle, all seats available for allotment by CEE in Government/ Aided/KAU/KVASU/KUFOS Colleges for a particular course (Eg:- BAMS under Medical stream or Electronics \& Communication under Engineering stream) available in all the Government and Aided colleges put together will be computed state-wide and the total seats so obtained for each course in these Colleges together, will be distributed statewide for the different categories by applying the mandatory reservation principle as mentioned in Clause 4.1.5. While following the above principle of allotment, the institution-wise break-up of seats that is earmarked under each category as per the mandatory reservation principle will be changed in certain colleges.
11.8.3 Allotment in Government/Aided/KAU/KVASU/KUFOS Colleges to Candidates with multiple Claims under Mandatory Quota: All candidates included in the Rank Lists are eligible for allotment under State Merit (SM). Candidates might be entitled for other reservation quotas also under Mandatory Reservation. For example, a candidate may have the benefit of SEBC reservation (EZ/ MU/BH/ LA/ DV/VK/ KN/BX/KU) or Scheduled Caste (SC) or Scheduled Tribe (ST) claim. The seats will be offered on the hierarchy of quotas.

The hierarchy in order is as follows:
(i) State Merit (SM) - All candidates included in the Rank Lists are eligible for allotment under State Merit.
(ii) A candidate without SEBC/SC/ ST reservation benefit will be considered only against the 'State Merit' seats wherever available at the time of allotment. Such candidates will be allotted a seat as per the availability of seats.
11.8.4 Allotments under Special Reservations: Candidates may be eligible for Special Reservations and/ or reservation benefits under 'Persons with Disabilities'. Such allotment will be only to the colleges where the seats have been identified. Allotment under these categories will not be governed by the provisions of the GO referred to in clause 11.8.2. The allotment of seats under Special reservation will be taken up along with the General Allotment. However such candidates will also be considered for allotments as per the Clauses 11.8.2 and 11.8.3, if they are eligible for SEBC/ SC/ ST reservation benefits.
11.9 Seat allotment protocol in Self-financing Colleges: Allotment of seats in Self-financing colleges will be college/ institution wise. Details will be notified separately.
11.10 In case, candidates are directed to appear for a personal counseling at any stage of allotment process and a candidate is not able to attend the allotment process on genuine grounds, the parent/guardian or any authorized person can act as a proxy at the risk of the candidate, on production of authorization letter in the form given in Annexure XIX. Authorization letter once received will be considered valid for the entire allotment process, unless the candidate revokes it in writing.
12. FEES
12.1 Fees for the various courses in Govt./ Aided Colleges will be as fixed by the Government, from time to time. Fees for the various courses in Self-financing Institutions will be notified separately. The details of fee structure for various courses will be published before the commencement of the CAP 2016. The list of Private Self Financing Institutions which offer additional fee concessions will be published in the official website of the Commissioner for Entrance Examinations, www.cee.kerala.gov.in before the commencement of CAP 2016.
12.1.1 Candidates belonging to SC/ST communities allotted against merit seats or against the seats reserved for them are exempted from payment of fees. Candidates belonging to OEC admitted against merit seats or against the un-availed seats of SC/ST are exempted from payment of fee (G.O.(MS) No.14/ 2005/ SCSTDD dated 5.4.2005 \& G.O.(Ms) No. 36/ 07/ SCSTDD dated 03.07.2007). Candidates belonging to OEC admitted to Government seats through SEBC reservation are also exempted from payment of fee (G.O.(Ms) No. 50/ 2006/ SCSTDD dated 22.09.2006).
(a) Claim for fee concession to OEC candidates: Candidates belonging to Other Eligible Communities are exempted from payment of fee at the time of allotment to professional Degree Courses under Government/ Community quota as per G.O. (MS) No. 36/07/ SCSTDD dated 03.07.2007. Those OEC candidates who have submitted the Non-Creamy Layer Certificate for availing the applicable reservation will be granted the fee concession based on the Non-Creamy Layer Certificate. But those OEC candidates who do not come under Non-Creamy Layer Category should submit the Community Certificate obtained from the village officer along with the printout of the application for availing the fee concession.
(b) Claim for fee concession to the candidates belonging to communities listed in Annexure $\mathbf{X}$ (a): Candidates belonging to the communities listed in Annexure $X$ (a) whose annual family income is up to Rs. 6 lakhs are exempted from payment of fee at the time of allotment to Professional Degree Courses under Government/ Community Quota as per GO (MS) No. 10/ 2014/ BCDD dated: 23.05.2014. They should provide Community and Income Certificates from the Village Officer in the prescribed format along with the printout of the application.
12.1.2 Candidates who are children of Inter-Caste married couple of which one is SC/ ST, will be eligible for educational and monetary benefits admissible to SC/ ST as per GO (MS) No. 25/ 2005/ SCSTDD dated 20.6.2005 if they have submitted the 'Inter-Caste Marriage Certificate' issued by Revenue officials along with the printout of the application and the claim is accepted.

### 12.2 Payment of Fees:

12.2.1 The fee for a course allotted to the candidate will have to be paid within the stipulated time, at specified branches of State Bank of Travancore (SBT). If a candidate moves to another course in the same stream, the fee for which is higher than the fees applicable for the course allotted earlier, the balance fee will have to be remitted. Candidates getting fresh allotment also will have to remit the fees applicable. The fee so collected from the candidates will be transferred to the college where the candidate stands admitted at the closing of admissions for the year.
12.2.2 Refund of fees: Candidates who submit their requests for cancellation of allotment should do so in the format available on the website, 'www.cee-kerala.org' before the dates announced by the CEE through notifications from time to time. Such candidates are eligible for refund of fees. Refund of fees will be applicable only to students who leave the college on cancellation of admission on or before the last date prescribed. Excess fees if any collected from candidates will be refunded. The amount of fee/excess fee collected will be refunded to the candidates only after the closing of admission for the year. No interest will be paid to the candidates.

### 12.2.3 No refund of fees:

(i) No refund of fees will be made to candidates who apply for Transfer Certificate/ Cancellation of admission under any circumstances, after the last allotment notified by the CEE. They will have to pay Liquidated damages as stipulated in Clause 12.2.4.
(ii) The candidate who does not take admission in the last phase of allotment in the respective courses will not be eligible for refund of fees. They will have to pay Liquidated damages as stipulated in Clause 12.2.4.

### 12.2.4 Liquidated damages

(a) Levying amount towards liquidated damages from candidates discontinuing their studies:
(i) If any candidate admitted against 'Government' seats in Government/ Aided/ Government Controlled Self-financing/ Private Self-financing/ KAU/KVASU/KUFOS Colleges, discontinues the studies after the closing of admissions in the same academic year, to join other Courses / Colleges or for other purposes, he/ she is liable to pay liquidated damages of Rs.75,000/(Rupees seventy five thousand only) for the courses other than MBBS/ BDS. The liquidated damages for those candidates discontinuing courses in Government Engineering Colleges will be Rs. 50,000/- (Rupees fifty thousand only). In all such cases the Transfer Certificate will be issued only after remitting the liquidated damages to the admitting authority concerned. Candidates belonging to SC/ST/ OEC are exempted from this rule. Candidates belonging to 'Keralite' category, as per Clause 6.1 (i), whose annual family income is below Rs. 75,000/ and who have submitted Income Certificate along with the printout of the application for admission to Professional Degree Courses 2016 will also be exempted from payment of Liquidated damages. Candidates who are transferred from one institution to another as per proceedings of the University concerned are exempted from payment of liquidated damages. The students admitted in Government/ Management seats in Professional Colleges who discontinue their studies to join at any stage of the Course in National Defence Academy / Naval Academy/ Defence Institutions are exempted from the payment of Liquidated damages.
In the case of Private Self financing Engineering Colleges, the date of closing of admission and levying of liquidated damages from the candidates discontinuing studies will be notified separately.
(ii) The candidates admitted against Management seats in Self financing colleges under Govt. control, on discontinuance of course after the closing of admissions in the same academic year, are liable to pay liquidated damages of Rs. $75,000 /$ - for all courses except MBBS \& BDS courses, irrespective of annual family income/ nativity/ reservation status.
(iii) If any candidate admitted against Government Seats in the Government/Government Controlled/Private Self financing Medical \& Dental Colleges and management seats in Government controlled self financing colleges allotted by the CEE for MBBS/ BDS courses discontinues after the closing of admission in the same academic year, to join other Courses/ Colleges or for other purposes, he/ she is liable to pay liquidated damages of Rs. 10,00,000/- (Rupees Ten Lakhs only) in the case of MBBS course and Rs. 5,00,000/(Rupees five lakh only) in the case of BDS course, irrespective of annual family income/ nativity/ reservation status and also liable to be debarred from appearing the Entrance Examinations conducted by the CEE for a period not exceeding two years. In case of failure to remit the penalty, the same is liable to be recovered under the Revenue Recovery Act.
(b) On discontinuance of a course after the first academic year liquidated damages shall be collected in the following manner:
(i) For Government seats in Government/Aided/KAU/KVASU/KUFOS Colleges, liquidated damages shall be levied as in Clause 12.2.4 (a) (i) \& (iii) above or fees for remaining years, whichever is higher, irrespective of annual family income/ nativity/ reservation status.
(ii) For Government seats in Private Self-financing/ Government controlled self-financing colleges, liquidated damages shall be levied either as in Clause 12.2 .4 (a) (i)\& (iii) above or
fees for remaining years, whichever is higher, irrespective of annual family income/ nativity/ reservation status.
(iii) For Management seats in Government controlled Self-financing colleges, fee for the remaining years of study will be levied as liquidated damages, irrespective of annual family income/ nativity/ reservation status.
(c) Penalty for Filing/Retaining unnecessary options: Candidates who file/ retain unnecessary options, but do not take admission on allotment to the Course/ College during the final phase of allotment to a course as notified by the CEE resulting in Government seats to lapse, will be penalized. They will be liable to pay penalty of Rs. $10,00,000 /$ - (Rupees Ten Lakhs Only) for MBBS course, Rs. 5,00,000/- (Rupees five lakh only) for BDS course and Rs. 50,000/(Rupees Fifty Thousand Only) for all other courses irrespective of annual family income/ nativity/ reservation status. Their candidature is also liable to be cancelled and also will be debarred from appearing the Entrance Examinations conducted by the CEE for a period not exceeding two years. In case of failure to remit the penalty, the same is liable to be recovered under the Revenue Recovery Act.
12.2.5 Refund of Excess amount collected as fee: The fees collected from candidates will be transferred to the college where the candidate stands admitted on closing of admissions. In case the candidate has moved to a course, the fee for which is lesser than the amount remitted by him/her at the time of the earlier allotment, the excess fee collected will be refunded to the candidate after closing of admissions. The candidates need not submit any individual request in this regard. No interest will be paid to the candidate on the balance amount due to him/ her.

## 13. COURSES, INSTITUTIONS - SPECIAL FEATURES

13.1 Medical Courses under the DME:
(a) The selected candidate should report before the Principal concerned on the date and time as directed by the CEE. No extension of time for joining the course will be granted under any circumstances. Failure to appear before the Principal concerned for admission on the date and time fixed will forfeit his/ her selection to the course.
(b) All students getting selected should get themselves vaccinated against Hepatitis, MMR and Chicken pox, before admission. A certificate to this effect will have to be produced at the time of admission.
(c) Students who successfully complete the MBBS course from Medical Colleges in the State, on completion of the MBBS Course, are liable to serve in rural areas. The provisions relating to this stipulation will be as given in appropriate Government orders issued from time to time.
13.2 Ayurvedacharya - BAMS Course:
(a) Degree will be awarded only on production of certificate of having successfully completed the prescribed one year internship.
(b) Medium of instruction will be English.
13.3 Homoeopathy - BHMS Course:

The degree will be awarded only after successful completion of one year internship as prescribed by the Central Council of Homoeopathy.
13.4 Other conditions for the courses under the Kerala Agricultural University/ Kerala Veterinary \& Animal Sciences University/ Kerala University of Fisheries \& Ocean Studies:
(a) Discontinuance and attendance: The students will not be allowed to discontinue the course of studies temporarily during the first two semesters. If a student admitted to the first year Under Graduate course does not register for the courses of first semester of that year or having registered, secures less than $80 \%$ attendance in 3 or more courses, his/ her name shall be removed from the roll.
(b) The medium of instruction for the above Degree courses will be English.
(c) All the above courses involve practical fieldwork requiring considerable physical exertion. The candidates who would not be able to do such physical work need not apply.
(d) The following minimum physical standards are prescribed for BSc. (Hons.) Forestry course.

| Gender | Height (cm) | Chest girth (cm) |  |
| :---: | :---: | :---: | :---: |
|  |  | Normal | Expanded |
| Male | 163 | 79 | 84 |
| Female | 150 | 74 | 79 |

(e) Candidates selected and sponsored by ICAR and children of persons of Kerala origin settled in Andaman Nicobar Island and Lakshadweep need not produce the nativity certificate for admission to the respective seats reserved for them.
(f) In the case of in-service candidates, as mentioned in Clause 5, certificate showing the period of service from the head of office in which they are working should be produced.
(g) Certificates regarding the physical standards/fitness prescribed may be obtained from a Medical Officer in service not below the rank of an Assistant Surgeon in the concerned specimen form as given in Annexure XVII (a)/ XVII (b) as applicable.
(h) The physical standards in respect of candidates who have been allotted to BSc.(Hons.) Forestry course will be finally checked by the Kerala Agricultural University before admitting them to the above course.
13.5 Transfer to other institutions: Transfer of candidates who are admitted to courses under Kerala University of Health Sciences to other institutions within the University during the course of study and internship will be in accordance with Order No.Ac.B/Transfer/ 2013/ KUHS dated 17.07.2013 of the Registrar, Kerala University of Health Sciences.

### 13.6 Engineering/Architecture Courses:

Those candidates who have been allotted to various Engineering/ Architecture courses in the State should produce a Physical Fitness Certificate in the Proforma given in Annexure XVII (b) at the time of admission.
Candidates allotted to Engineering/ Architecture Courses will have to get vaccinated against Hepatitis-B, before they take admission in the allotted college, as per AICTE guidelines.
Note: Tuition Fee Waiver Scheme will be implemented as per the norms fixed by the AICTE. The implementation of the scheme for Engineering course will be subject to the orders issued by Government of Kerala from time to time.

## 14. OTHER ITEMS

14.1 The Commissioner for Entrance Examinations will not entertain any request for change of the date of Entrance Examinations or Centralised Allotment Process or enquiries with regard to the date of declaration of the results.
14.2 All disputes pertaining to the examination, selection or admission shall fall within the jurisdiction of the Hon'ble High Court of Kerala.
14.3 Any other items not specifically covered in this prospectus will be decided by the CEE and his decision shall be final.

### 14.4 Preventive measures against ragging:

According to the Kerala Prohibition of Ragging Act, 1998, 'ragging' means doing of any act by disorderly conduct to a student of an educational institution, which causes or is likely to cause physical or psychological harm or raising apprehension or shame or embarrassment to that student and includes teasing or abusing or playing practical jokes or causing hurt to such students or asking a student to do any act or to perform something which such student will not in the ordinary course be willing to do.
All Institutions will have to abide by the directives of the Honourable Supreme Court of India, Dated May 16, 2007 in SLP No.(s) 24295 of 2006 University of Kerala Vs Council, Principals', Colleges, Kerala \& Ors [with SLP (C) No.24296-99/ 2004 \& W.P.(CrI) No.173/ 2006 \& SLP (C) No.14356/2005] and the recommendations approved by the Honourable Supreme Court of India on effective prevention of ragging in educational institutions.
In case, the applicant for admission is found to have indulged in ragging in the past or if it is noticed later that he/ she has indulged in ragging, admission may be refused or he/ she shall be expelled from the educational institution.
It shall be the collective responsibility of the authority of the institution to see to it that effective steps for preventing ragging are taken. Anti-ragging committees and anti-ragging squads will have to be formed to take effective measures against ragging and they should adhere to the stipulations and effectively monitor and comply with the directives.
Each of the students of the institution and his/ her parents, or guardian are required to submit a combined undertaking at the time of registration/ admission in prescribed format available
in Annexure - XXIII which is mandatory for registration/ admission.

# ANNEXURE - I <br> SYLLABUS FOR THE ENTRANCE EXAMINATIONS, 2016 

(See Clause 9.5.1)

## MATHEMATICS

UNIT I: ALGEBRA

## SETS, RELATIONS AND FUNCTIONS

Sets and their Representations: Finite and Infinite sets; Empty set; Equal sets; Subsets; Power set; Universal set; Venn Diagrams; Complement of a set; Operations on Sets (Union, Intersection and Difference of Set); Applications of sets: Ordered Pairs, Cartesian Product of Two sets; Relations: Domain, Co-domain and Range: Functions: into, on to, one - one in to, one-one on to Functions; Constant Function; Identity Function; composition of Functions; Invertible Functions; Binary Operations.

## Complex Numbers

Complex Numbers in the form $a+i b$; Real and Imaginary Parts of a complex Number; Complex Conjugate, Argand Diagram, Representation of Complex Number as a point in the plane; Modulus and Argument of a Complex Number; Algebra of Complex Numbers; Triangle Inequality; $\left|\mathrm{Z}_{1}+\mathrm{Z}_{2}\right| \leq\left|\mathrm{Z}_{1}\right|+\left|\mathrm{Z}_{2}\right| ;\left|\mathrm{Z}_{1} \cdot \mathrm{Z}_{2}\right|=\left|\mathrm{Z}_{1}\right|\left|\mathrm{Z}_{2}\right| ;$ Polar Representation of a Complex Number.

## Quadratic Equations

Solution of a Quadratic Equation in the Complex Number System by (i) Factorization (ii) Using Formula; Relation between Roots and Coefficients; Nature of Roots; Formation of Quadratic Equations with given Roots; Equations Reducible to Quadratic Forms.

## Sequences and Series

Sequence and Examples of Finite and Infinite Sequences; Arithmetic Progression (A..P): First Term, Common Difference, $\mathrm{n}^{\text {th }}$ Term and sum of n terms of an A.P.; Arithmetic Mean (A.M); Insertion of Arithmetic Means between any Two given Numbers; Geometric Progression (G.P): first Term, Common Ratio and nth term, Sum to n Terms, Geometric Mean (G.M); Insertion of Geometric Means between any two given Numbers.

## Permutations, Combinations, Binomial Theorem and Mathematical Induction

Fundamental Principle of Counting; The Factorial Notation; Permutation as an Arrangement; Meaning of $P(n, r)$; Combination: Meaning of $C(n, r)$; Applications of Permutations and Combinations. Statement of Binomial Theorem; Proof of Binomial Theorem for positive integral Exponent using Principle of Mathematical Induction and also by combinatorial Method; General and Middle Terms in Binomial Expansions; Properties of Binomial Coefficients; Binomial Theorem for any Index (without proof); Application of Binomial Theorem. The Principle of Mathematical Induction, simple Applications.

## Matrices and Determinants

Concept of a Matrix; Types of Matrices; Equality of Matrices (only real entries may be considered): Operations of Addition, Scalar Multiplication and Multiplication of Matrices; Statement of Important Results on operations of Matrices and their Verifications by Numerical Problem only; Determinant of a Square Matrix; Minors and Cofactors; singular and non-singular Matrices; Applications of Determinants in (i) finding the Area of a Triangle (ii) solving a system of Linear Equations (Cramer's Rule); Transpose, Adjoint and Inverse of a Matrix; Consistency and Inconsistency of a system of Linear Equations; Solving
System of Linear Equations in Two or Three variables using Inverse of a Matrix (only up to $3 \times 3$ Determinants and Matrices should be considered).

## Linear Inequations

Solutions of Linear Inequation in one variable and its Graphical Representation; solution of system of Linear Inequations in one variable; Graphical solutions of Linear inequations in two variables; solutions of system of Linear Inequations in two variables.

## Mathematical Logic and Boolean Algebra

Statements; use of Venn Diagram in Logic; Negation Operation; Basic Logical Connectives and Compound Statements including their Negations.

## UNIT II : TRIGONOMETRY

## Trigonometric functions and Inverse Trigonometric functions

Degree measures and Radian measure of positive and negative angles; relation between degree measure and radian measure, definition of trigonometric functions with the help of a unit circle, periodic functions, concept of periodicity of trigonometric functions, value of trigonometric functions of $x$ for $x=0, \pi / 6, \pi / 4, \pi / 3, \pi / 2, \pi, 3 \pi / 2,2 \pi$; trigonometric functions of sum and difference of numbers.

$$
\begin{aligned}
& \operatorname{Sin}(x \pm y)=\operatorname{Sin} x \operatorname{Cos} y \pm \operatorname{Cos} x \operatorname{Sin} y ; \operatorname{Cos}(x \pm y)=\operatorname{Cos} x \operatorname{Cos} y \mp \operatorname{Sin} x \operatorname{Sin} y ; \operatorname{Tan}(x \pm y)=\frac{\operatorname{Tan} x \pm \operatorname{Tan} y}{1 \mp \operatorname{Tan} x \operatorname{Tan} y} ; \\
& \operatorname{Sin}(2 \pi \pm x)= \pm \operatorname{Sin} x, \operatorname{Cos}(2 \pi \pm x)=\operatorname{Cos} x ; \operatorname{Cos}(-x)=\operatorname{Cos} x, \operatorname{Sin}(-x)=-\operatorname{Sin} x ; \operatorname{Cos}(\pi / 2 \pm x)= \pm \operatorname{Sin} x \\
& \quad \operatorname{Sin}(\pi / 2 \pm x)=\operatorname{Cos} x ; \operatorname{Cos}(\pi \pm x)=-\operatorname{Cos} x, \operatorname{Sin}(\pi \pm x)= \pm \operatorname{Sin} x
\end{aligned}
$$

Trigonometric functions of multiple and submultiples of numbers.
$\operatorname{Sin} 2 x=2 \operatorname{Sin} x \operatorname{Cos} x$;
$\operatorname{Sin} 3 x=3 \operatorname{Sin} x-4 \operatorname{Sin}^{3} x ; \operatorname{Cos} 2 \mathrm{x}=\operatorname{Cos}^{2} x-\operatorname{Sin}^{2} x=1-2 \operatorname{Sin}^{2} x=2 \operatorname{Cos}^{2} x-1 ; \operatorname{Cos} 3 \mathrm{x}=4 \operatorname{Cos}^{3} x-3 \operatorname{Cos} x$
$\operatorname{Tan} 3 x=\frac{3 \operatorname{Tan} \mathrm{x}-\operatorname{Tan}^{3} \mathrm{x}}{1-3 \operatorname{Tan}^{2} \mathrm{x}} ; \operatorname{Sin} \mathrm{x}+\operatorname{Sin} \mathrm{y}=2 \operatorname{Sin}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Cos}\left(\frac{x-y}{2}\right) ; \operatorname{Cos} \mathrm{x}+\operatorname{Cos} \mathrm{y}=2 \operatorname{Cos}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Cos}\left(\frac{\mathrm{x}-\mathrm{y}}{2}\right)$
$\operatorname{Sin} \mathrm{x}-\operatorname{Sin} \mathrm{y}=2 \operatorname{Cos}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Sin}\left(\frac{\mathrm{x}-\mathrm{y}}{2}\right) ; \operatorname{Cos} \mathrm{x}-\operatorname{Cos} \mathrm{y}=-2 \operatorname{Sin}\left(\frac{\mathrm{x}+\mathrm{y}}{2}\right) \operatorname{Sin}\left(\frac{\mathrm{x}-\mathrm{y}}{2}\right)$
Conditional identities for the angles of a triangle, solution of trigonometric equations of the type $\operatorname{Sin} x=\operatorname{Sin} a ; \operatorname{Cos} x=\operatorname{Cos} a ; \operatorname{Tan} x=\operatorname{Tan} a$ and equations reducible to these forms. Inverse Trigonometric functions:
(i) $\operatorname{Sin}^{-1}(\operatorname{Sin} x)=x$ and other similar formula (ii) $\operatorname{Sin}^{-1}(1 / x)=\operatorname{Cosec}^{-1} x$ and other similar formula.

$$
\begin{aligned}
& \operatorname{Sin}^{-1}(-x)=-\operatorname{Sin}^{-1} x, \operatorname{Tan}^{-1}(-x)=-\operatorname{Tan}^{-1} x ; \operatorname{Cosec}^{-1}(-x)=-\operatorname{Cosec}^{-1} x, \operatorname{Cos}^{-1}(-x)=\pi-\operatorname{Cos}^{-1}(x) ; \\
& \operatorname{Sec}^{-1}(-x)=\pi-\operatorname{Sec}^{-1}(x), \quad \operatorname{Cot}^{-1}(-x)=\pi-\operatorname{Cot}^{-1}(x) \\
& \operatorname{Sin}^{-1} x+\operatorname{Cos}^{-1} x=\pi / 2, \operatorname{Tan}^{-1} x+\operatorname{Cot}^{-1} x=\pi / 2 ; \operatorname{Cosec}^{-1}(x)+\operatorname{Sec}^{-1}(x)=\pi / 2 ; \operatorname{Tan}^{-1} x-\operatorname{Tan}^{-1} y=\operatorname{Tan}^{-1}\left(\frac{x-y}{1+x y}\right), x y>-1 \\
& \operatorname{Tan}^{-1} x+\operatorname{Tan}^{-1} y=\operatorname{Tan}^{-1}\left(\frac{x+y}{1-x y}\right) ; x y<1 ; 2 \operatorname{Tan}^{-1} x=\operatorname{Sin}^{-1}\left(\frac{2 x}{1+x^{2}}\right)=\operatorname{Cos}^{-1}\left(\frac{1-x^{2}}{1+x^{2}}\right)=\operatorname{Tan}^{-1}\left(\frac{2 x}{1-x^{2}}\right),|x|<1
\end{aligned}
$$

Simple problems
Graph of the following trigonometric functions;
$y=\operatorname{Sin} x ; y=\operatorname{Cos} x ; y=\operatorname{Tan} x ; y=a \operatorname{Sin} x ; y=a \operatorname{Cos} x, y=a \operatorname{Sin} b x ; y=a \operatorname{Cos} b x ;$

## UNIT III: GEOMETRY

## Cartesian System of Rectangular Co ordinates

Cartesian system of co ordinates in a plane, Distance formula, Centroid and incentre, Area of a triangle, condition for the collinearity of three points in a plane, Slope of line, parallel and perpendicular lines, intercepts of a line on the co ordinate axes, Locus and its equation.

## Lines and Family of lines

Various forms of equations of a line parallel to axes, slope-intercept form, The Slope point form, Intercept form, Normal form, General form, Intersection of lines. Equation of bisectors of angle between two lines, Angles between two lines, condition for concurrency of three lines, Distance of a point from a line, Equations of family of lines through the intersection of two lines.

## Circles and Family of circles

Standard form of the equation of a circle General form of the equation of a circle, its radius and center, Equation of the circle in the parametric form.

## Conic sections

Sections of a cone. Equations of conic sections [Parabola, Ellipse and Hyperbola] in standard form.

## Vectors

Vectors and scalars, Magnitude and Direction of a vector, Types of vectors (Equal vectors, unit vector, Zero vector). Position vector of a point, Localized and free vectors, parallel and collinear vectors, Negative of a vector, components of a vector, Addition of vectors, multiplication of a vector by a scalar, position vector of point dividing a line segment in a given ratio, Application of vectors in geometry. Scalar product of two vectors, projection of a vector on a line, vector product of two vectors.

## Three Dimensional Geometry

Coordinate axes and coordinate planes in three dimensional space, coordinate of a point in space, distance between two points, section formula, direction cosines, and direction ratios of a line joining two points, projection of the join of two points on a given line, Angle between two lines whose direction ratios are given, Cartesian and vector equation of a line through (i) a point and parallel to a given vector (ii) through two points, Collinearity of three points, coplanar and skew lines, Shortest distance between two lines, Condition for the intersection of two lines, Carterian and vector equation of a plane (i) When the normal vector and the distance of the plane from the origin is given (ii) passing though a point and perpendicular to a given vector (iii) Passing through a point and parallel to two given lines through the intersection of two other planes (iv) containing two lines (v) passing through three points, Angle between (i) two lines (ii) two planes (iii) a line and a plane, Condition of coplanarity of two lines in vector and Cartesian form, length of perpendicular of a point from a plane by both vector and Cartesian methods.

## UNIT IV: STATISTICS

## Statistics and probability

Mean deviation for ungrouped data, variance for grouped an ungrouped data, standard deviation. Random experiments and sample space, Events as subset of a sample space, occurrence of an event, sure and impossible events, Exhaustive events, Algebra of events, Meaning of equality likely outcomes, mutually exclusive events. Probability of an event; Theorems on probability; Addition rule, Multiplication rule, Independent experiments and events. Finding P (A or B), P (A and B), random variables, Probability distribution of a random variable.

## UNIT V : CALCULUS

## Functions, Limits and continuity

Concept of a real function; its domain and range; Modulus Function, Greatest integer function: Signum functions; Trigonometric functions and inverse trigonometric functions and their graphs; composite functions, Inverse of a function.
Limit of a function; meaning and related notations; Left and right hand limits; Fundamental theorems on limits without proof $\lim _{x \rightarrow a} \frac{x^{n}-a^{n}}{x-a}=n a^{n-1}, a>0 ; \lim _{x \rightarrow 0} \frac{\operatorname{Sin} x}{x}=1 ; \lim _{x \rightarrow 0} \frac{e^{x}-1}{x}=1 \quad$ (without proof); $\lim _{x \rightarrow 0} \frac{\log (1+x)}{x}=1 \quad$ Limits at Infinity and infinity limits; continuity of a function at a point, over an open/ closed interval; Sum, Product and quotient of continuous functions; Continuity of special functions- Polynomial, Trigonometric, exponential, Logarithmic and Inverse trigonometric functions.

## Differentiation

Derivative of a function; its geometrical and physical significance; Relationship between continuity and differentiability; Derivatives of polynomial, basic trigonometric, exponential, logarithmic and inverse trigonometric functions from first principles; derivatives of sum, difference, product and quotient of functions; derivatives of polynomial, trigonometric, exponential, logarithmic, inverse
trigonometric and implicit functions; Logarithmic differentiation; derivatives of functions expressed in parametric form; chain rule and differentiation by substitution; Derivatives of Second order.

## Application of Derivatives

Rate of change of quantities; Tangents and Normals; increasing and decreasing functions and sign of the derivatives; maxima and minima; Greatest and least values; Rolle's theorem and Mean value theorem; Approximation by differentials.

## Indefinite Integrals

Integration as inverse of differentiation; properties of integrals; Integrals involving algebraic, trigonometric, exponential and logarithmic functions; Integration by substitution; Integration by parts; Integrals of the type:
$\int \frac{d x}{x^{2} \pm a^{2}}, \int \frac{d x}{a^{2}-x^{2}}, \int \frac{d x}{\sqrt{x^{2} \pm a^{2}}}, \int \frac{d x}{\sqrt{a^{2}-x^{2}}}, \int \frac{d x}{a x^{2}+b x+c}$,
$\int \frac{p x+q}{a x^{2}+b x+c} d x, \int \frac{d x}{\sqrt{a x^{2}+b x+c}}, \int \frac{p x+q}{\sqrt{a x^{2}+b x+c}} \mathrm{dx}$.
Integration of rational functions; Partial fractions and their use in integration; Integrals of the type
$\int \sqrt{x^{2} \pm a^{2}} d x, \int \sqrt{a^{2}-x^{2}} d x, \int \sqrt{\left(a x^{2}+b x+c\right)} d x, \int(p x+q) \sqrt{\left(a x^{2}+b x+c\right)} d x$,
$\int \frac{d x}{a+b \cos x}, \int \frac{d x}{a-b \sin x}, \int \sin ^{-1} x d x, \int \log x d x$.

## Definite Integrals

Definite integral as limit of a sum; Fundamental theorems of integral calculus without proof); Evaluation of definite integrals by substitution and by using the following properties.

$$
\begin{aligned}
& \int_{a}^{b} f(x) d x=-\int_{b}^{a} f(x) d x ; \int_{a}^{b} f(x) d x=\int_{a}^{c} f(x) d x+\int_{c}^{b} f(x) d x \\
& \int_{a}^{b} f(x) d x=\int_{a}^{b} f(a+b-x) d x ; \int_{0}^{a} f(x) d x=\int_{0}^{a} f(a-x) d x \\
& \int_{a}^{b} f(x) d x=\int_{a}^{b} f(a+b-x) d x ; \int_{0}^{a} f(x) d x=\int_{0}^{a} f(a-x) d x \\
& \int_{0}^{b} f(x) d x=\int_{a}^{b} f(a+b-x) d x ; \int_{0}^{a} f(x) d x=\int_{0}^{a} f(a-x) d x \\
& \int_{0}^{2 a} f(x) d x=\int_{0}^{a} f(x) d x+\int_{0}^{a} f(2 a-x) d x ;=\int_{0}^{2 a} f(x) d x=2 \int_{0}^{a} f(x) d x, \text { if } f(2 a-x)=f(x) \\
& \int_{0}^{2 a} f(x) d x=0, \text { if } f(2 a-x)=-f(x) \\
& \int_{-a}^{a} f(x) d x=\left\{\begin{array}{l}
\text { a } \\
\int_{0}^{a} \int_{0}^{a} f(x) d x, \text { if } f(x) \text { is even } \\
0 \\
\text { if } f(x) \text { is odd }
\end{array}\right.
\end{aligned}
$$

Application of definite integrals in finding areas bounded by a curve, circle, parabola and ellipse in standard form between two ordinates and $x$-axis; Area between two curves, line and circle; line and parabola: line and ellipse.

## Differential Equations

Definition; order and degree; general and particular solutions of a differential equation; formation of differential equations whose general solution is given; solution of differential equations by method of Separation of variables; Homogeneous differential equations of first order and their solutions; Solution of linear differential equations of the type $\frac{d y}{d x}+P(x) y=Q(x)$ where $P(x), \quad Q(x)$ are functions of $x$.

## PHYSICS

## UNIT 1: INTRODUCTION AND MEASUREMENT

Physics - Scope and excitement; Physics in relation to science, society and technology - inventions, names of scientists and their fields, nobel prize winners and topics, current developments in physical sciences and related technology. Units for measurement - systems of units, S I units, conversion from other systems to S.I units. Fundamental and derived units. Measurement of length, mass and time, least count in measuring instruments (eg. vernier calipers, screw gauge etc), Dimensional analysis and applications, order of magnitude, accuracy and errors in measurement, random and instrumental errors, significant figures and rounding off principles.

## UNIT 2: DESCRIPTION OF MOTION IN ONE DIMENSION

Objects in motion in one dimension - Motion in a straight line, uniform motion - its graphical representation and formulae; speed and velocity - instantaneous velocity; ideas of relative velocity with expressions and graphical representations; Uniformly accelerated motion, position-time graph, velocity - time graph and formulae. Elementary ideas of calculus - differentiation and integration applications to motion.

## UNIT 3 : DESCRIPTION OF MOTION IN TWO AND THREE DIMENSIONS

Vectors and scalars, vectors in two and three dimensions, unit vector, addition and multiplication, resolution of vector in a plane, rectangular components, scalar and vector products. Motion in two dimensions - projectile motion, ideas of uniform circular motion, linear and angular velocity, relation between centripetal acceleration and angular speed.

## UNIT 4 : LAWS OF MOTION

Force and inertia, first law of motion, momentum, second law of motion, forces in nature, impulse, third law of motion, conservation of linear momentum, examples of variable mass situation, rocket propulsion, equilibrium of concurrent forces.
Static and kinetic friction, laws of friction, rolling friction, lubrication. Inertial and non-inertial frames (elementary ideas); Dynamics of uniform circular motion - centripetal and centrifugal forces, examples: banking of curves and centrifuge.

## UNIT 5 : WORK, ENERGY AND POWER

Work done by a constant force and by a variable force, units of work - Energy - kinetic and potential forms, power, work-energy theorem. Elastic and inelastic collisions in one and two dimensions. Gravitational potential energy and its conversion to kinetic energy, spring constant, potential energy of a spring, Different forms of energy, mass - energy equivalence (elementary ideas), conservation of energy, conservative and non-conservative forces.

## UNIT 6: MOTION OF SYSTEM OF PARTICLES AND RIGID BODY ROTATION

Centre of mass of a two particle system, generalisation to N particles, momentum conservation and center of mass motion, applications to some familiar systems, center of mass of rigid body. Moment of a force, torque, angular momentum, physical meaning of angular momentum, conservation of angular momentum with some examples, eg. planetary motion. Equilibrium of rigid bodies, rigid body rotation and equation of rotational motion, comparison of linear and rotational motions, moment of inertia and its physical significance, radius of gyration, parallel and perpendicular axes theorems (statements only), moment of inertia of circular ring and disc, cylinder rolling without slipping.

## UNIT 7 : GRAVITATION

Universal law of gravitation, gravitational constant (G) and acceleration due to gravity (g), weight and gravitation, variation of g with altitude, latitude, depth and rotation of earth. Mass of earth, gravitational potential energy near the surface of the earth, gravitational potential, escape velocity, orbital velocity of satellite, weightlessness, motion of geostationary and polar satellites, statement of

Kepler's laws of planetary motion, proof of second and third laws, relation between inertial and gravitational masses.

## UNIT 8 : MECHANICS OF SOLIDS AND FLUIDS

Solids : Hooke's law, stress - strain relationships, Youngs modulus, bulk modulus, shear modulus of rigidity, some practical examples. Fluids : Pressure due to fluid column, Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure, Buoyancy, Iaws of floatation and Archimedes principles, atmospheric pressure. Surface energy and surface tension, angle of contact, examples of drops and babbles, capillary rise, detergents and surface tension, viscosity, sphere falling through a liquid column, Stokes law, streamline flow, Reynold's number, equation of continuity, Bernoulli's theorum and applications.

## UNIT 9 : HEAT AND THERMODYNAMICS

Kinetic theory of gases, assumptions, concept of pressure, kinetic energy and temperature, mean-rms and most probable speed, degrees of freedom, statement of law of equipartition of energy, concept of mean free path and Avogadros' number
Thermal equilibrium and temperatures, zeroth law of thermodynamics, Heat-work and internal energy, Thermal expansion - thermometry. First law of thermodynamics and examples, specific heat, specific heat of gases at constant volume and constant pressure, specific heat of solids, Dulong and Petit's law. Thermodynamical variables and equation of state, phase diagrams, ideal gas equation, isothermal and adiabatic processes, reversible and irreversible processes, Carnot engines, refrigerators and heat pumps, efficiency and coefficient performance of heat engines, ideas of second Iaw of thermodynamics with practical applications. Thermal radiation - Stefan-Boltzmann Iaw, Newton's law of cooling.

## UNIT 10 : OSCILLATIONS

Periodic motion - period, frequency, displacement as a function of time and periodic functions; Simple harmonic motion (S.H.M) and its equation, uniform circular motion and simple harmonic motion, oscillations of a spring, restoring force and force constant, energy in simple harmonic motion, kinetic and potential energies, simple pendulum - derivation of expression for the period; forced and damped oscillations and resonance (qualitative ideas only), coupled oscillations.

## UNIT 11: WAVES

Longitudinal and transverse waves, wave motion, displacement relation for a progressive wave, speed of a traveling wave, principle of superposition of waves, reflection of waves, standing waves in strings and pipes, fundamental mode and harmonics, beats, Doppler effect of sound with applications.

## UNIT 12: ELECTROSTATICS

Frictional electricity; Properties of electric charges - conservation, additivity and quantisation. Coulomb's law - Forces between two point electric charges, Forces between multiple electric charges; Superposition principle and continuous charge distribution. Electric field and its physical significance, electric field due to a point charge, electric field lines; Electric dipole, electric field due to a dipole and behavior and dipole in a uniform electric field. Electric potential-physical meaning, potential difference, electric potential due to a point charge, a dipole and system of charges; Equipotential surfaces, Electrical potential energy of a system of point charges, electric dipoles in an electrostatic field. Electric flux, statement of Gauss' theorem-its application to find field due to an infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell. Conductors and insulators-presence of free charges and bound charges; Dielectrics and electric polarization, general concept of a capacitor and capacitance, combination of capacitors in series and in parallel, energy stored in a capacitor, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, Van de Graff generator.

## UNIT 13: CURRENT ELECTRICITY

Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, their relation with electric current; Ohm's law, electrical resistance, V-I characteristics, limitations of Ohm's law, electrical resistivity and conductivity, classification of materials in terms of conductivity; Superconductivity (elementary idea); Carbon resistors, colour code for carbon resistors; combination of resistances - series and parallel. Temperature dependence of resistance. Internal resistance of a cell, Potential difference and emf of a cell, combination of cells in series and in parallel. Kirchoff's laws-illustration by simple applications, Wheatstone bridge and its applications, Meter bridge. Potentiometer - principle and applications to measure potential difference, comparison of emf of two
cells and determination of internal resistance of a cell. Electric power, thermal effects of current and J oule's law; Chemical effects of current, Faraday's laws of electrolysis, Electro-chemical cells.

## UNIT 14: MAGNETIC EFFECT OF CURRENT AND MAGNETISM

Concept of a magnetic field, Oersted's experiment, Biot-Savart's law, magnetic field due to an infinitely long current carrying straight wire and a circular loop, Ampere's circuital law and its applications to straight and toroidal solenoids. Force on a moving charge in a uniform magnetic field, cyclotron. Force on current carrying conductor and torque on current loop in magnetic fields, force between two parallel current carrying conductors, definition of the ampere. Moving coil galvanometer and its conversion into ammeter and voltmeter. Current loop as a magnetic dipole, magnetic moment, torque on a magnetic dipole in a uniform magnetic field, Lines of force in magnetic field. Comparison of a bar magnet and solenoid. Earth's magnetic field and magnetic elements, vibration magnetometer. Para, dia and ferromagnetic substances with examples. Electromagnets and permanent magnets

## UNIT 15: ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT

Electromagnetic induction, Faraday's laws, Induced e.m.f. and current, Lenz's law, Eddy currents, self and mutual inductance. Alternating current, peak and rms value of alternating current/ voltage, reactance and impedance, L.C. oscillations, LCR series circuit. (Phasor diagram), Resonant circuits and Q-factor; power in A.C. circuits, wattless current.
AC generator and Transformer.

## UNIT 16: ELECTROMAGNETIC WAVES

Properties of electromagnetic waves and Maxwell's contributions (qualitative ideas), Hertz's experiments, Electromagnetic spectrum (different regions and applications), propagation of electromagnetic waves in earth's atmosphere.

## UNIT 17: OPTICS

Reflection in mirrors, refraction of light, total internal reflection and its applications, spherical lenses, thin lens formula, lens maker's formula; Magnification, Power of a lens, combination of thin lenses in contact; Refraction and dispersion of light due to a prism, Scattering of light, Blue colour of the sky and appearance of the sun at sunrise and sunset. Optical instruments, Compound microscope, astronomical telescope (refraction and reflection type) and their magnifying powers. Wave front and Huygen's principle. Reflection and refraction of plane wave at a plane surface using wave fronts (qualitative idea); Interference-Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light; Diffraction due to a single slit, width of central maximum, difference between interference and diffraction, resolving power of microscope and telescope; Polarisation, plane polarised light, Brewster's law, Use of polarised light and polaroids.

## UNIT 18: DUAL NATURE OF MATTER AND RADIATIONS

Photoelectric effect, Einstein photoelectric equation - particle nature light, photo-cell, Matter waves - wave nature of particles. De Broglie relation, Davisson and Germer experiment.

## UNIT 19: ATOMIC NUCLEUS

Alpha particle scattering experiment, size of the nucleus - composition of the nucleus - protons and neutrons. Nuclear instability - Radioactivity-Alpha, Beta and Gamma particle/rays and their properties, radio- active decay laws, Simple explanation of . -decay, -decay and ~decay; mass-energy relation, mass defect, Binding energy per nucleon and its variation with mass number. Nature of nuclear forces, nuclear reactions, nuclear fission, nuclear reactors and their uses; nuclear fusion, elementary ideas of energy production in stars.

## UNIT 20: SOLIDS AND SEMICONDUCTOR DEVICES

Energy bands in solids (qualitative ideas only), difference between metals, insulators and semiconductors using band theory; Intrinsic and extrinsic semi-conductors, p-n junction, Semi-conductor diode-characteristics forward and reverse bias, diode as a rectifier, solar cell, photo-diode, zener diode as a voltage regulator; Junction transistor, characteristics of a transistor; Transistor as an amplifier (common emitter configuration) and oscillator; Logic gates (OR, AND, NOT, NAND, NOR); Elementary ideas about integrated circuits.

## UNIT 21: PRINCIPLES OF COMMUNICATIONS

Elementary idea of analog and digital communication; Need for modulation, amplitude, frequency and pulse modulation; Elementary ideas about demodulation, Data transmission and retrieval, Fax and Modem. (basic principles) Space communications - Ground wave, space wave and sky wave propagation, satellite communications.

## CHEMISTRY

## UNIT 1: BASIC CONCEPTS AND ATOMIC STRUCTURE

Laws of chemical combination: Law of conservation of mass. Law of definite proportion. Law of multiple proportions. Gay-Lussac's law of combining volumes. Dalton's atomic theory. Mole concept. Atomic, molecular and molar masses. Chemical equations. Balancing and calculation based on chemical equations.
Atomic structure: Fundamental particles. Rutherford model of atom. Nature of electromagnetic radiation. Emission spectrum of hydrogen atom. Bohr model of hydrogen atom. Drawbacks of Bohr model. Dual nature of matter and radiation. de Broglie relation. Uncertainty principle. Wave function (mention only). Atomic orbitals and their shapes (s, p and d orbitals only). Quantum numbers. Electronic configurations of elements. Pauli's exclusion principle. Hund's rule. Aufbau principle.

## UNIT 2: BONDING AND MOLECULAR STRUCTURE

Kossel and Lewis approach of bonding. Ionic bond, covalent character of ionic bond, Lattice energy. Born-Haber cycle. Covalent bond. Lewis structure of covalent bond. Concept of orbital overlap. VSEPR theory and geometry of molecules. Polarity of covalent bond. Valence bond theory and hybridization ( $s p, p^{2}, s p^{3}, d s p^{2}, d^{2} s p^{3}$ and $s p^{3} d^{2}$ ). Resonance. Molecular orbital method. Bond order. Molecular orbital diagrams of homodiatomic molecules. Bond strength and magnetic behaviour. Hydrogen bond. Coordinate bond. Metallic bond.

## UNIT 3: STATES OF MATTER

Gaseous state: Boyle's law. Charles' law. Avogadro's hypothesis. Graham's law of diffusion. Absolute scale of temperature. Ideal gas equation. Gas constant and its values. Dalton's law of partial pressure. Aqueous tension. Kinetic theory of gases. Deviation of real gases from ideal behaviour. Inter molecular interaction, van der Waals equation. Liquefaction of gases. Critical temperature.

Liquid state: Properties of liquids. Vapour pressure and boiling point. Surface tension. Viscosity.
Solid state: Types of solids (ionic, covalent and molecular). Space lattice and unit cells. Cubic crystal systems. Close packing. Different voids (tetrahedral and octahedral only). Density calculations. Point defects (Frenkel and Schottky). Electrical properties of solids. Conductors, semiconductors and insulators. Piezoelectric and pyroelectric crystals. Magnetic properties of solids. Diamagnetic, paramagnetic, ferromagnetic, antiferromagnetic and ferrimagnetic substances.

## UNIT 4: PERIODIC PROPERTIES OF ELEMENTS AND HYDROGEN

Classification of elements: Mendeleev's periodic table. Atomic number and modern periodic law. Long form of periodic table. Electronic configurations of elements and their position in the periodic table. Classification into s -, p -, d - and f-block elements. Periodic properties: Ionization energy, electron affinity, atomic radii, valence and electro negativity.
Hydrogen: Position in the periodic table, occurrence, isolation, preparation (including commercial), properties, reactions and uses. Isotopes of hydrogen. Hydrides: Molecular, saline and interstitial hydrides. Water: Structure of water molecule and its aggregates. Physical and chemical properties of water. Hard and soft water. Removal of hardness. Preparation and uses of heavy water: Liquid hydrogen as fuel.

## UNIT 5: S-BLOCK ELEMENTS AND PRINCIPLES OF METALLURGY

Alkali metals: Occurrence, electronic configuration, trends in atomic and physical properties (ionization energy, atomic radii and ionic radii), electrode potential, and reactions with oxygen, hydrogen, halogens and liquid ammonia. Oxides, hydroxides and halides.

Alkaline earth metals: Occurrence, electronic configuration, trends in atomic and physical properties, electrode potential, and reactions with oxygen, hydrogen and halogens. Oxides, hydroxides, halides and sulphides.

Anomalous properties of lithium and beryllium. Compounds of s-block elements: Large scale preparation of NaOH and $\mathrm{Na}_{2} \mathrm{CO}_{3}$, their properties and uses. Preparation and properties of CaO , $\mathrm{Ca}(\mathrm{OH})_{2}$, Plaster of Paris and $\mathrm{MgSO}_{4}$. Industrial uses of lime, limestone and cement.

Principles of metallurgy: Occurrence of metals. Concentration of ores. General principles of extraction of metals from ore. Thermodynamic and electro chemical principles of metallurgy. Refining of metals. Extraction of zinc, aluminium, iron and copper.

## UNIT 6: P-BLOCK ELEMENTS

General characteristics of p-block elements: atomic and physical properties. Oxidation states. Trends in chemical reactivity of Groups $13,14,15,16$ and 17 elements.

Boron: Occurrence, isolation, physical and chemical properties. Borax and boric acid. Boron hydrides. Structure of diborane. Uses of boron and its compounds. Carbon: Allotropes, properties, Oxides of Carbon. Nitrogen: Terrestrial abundance and distribution, isolation, properties and chemical reactivity. Ammonia: Haber process of manufacture, properties and uses. Nitric acid: Ostwald process of manufacture and important uses. Oxides of nitrogen: Preparation and structures (skeletal only). Oxygen: Terrestrial abundance, isolation, properties and chemical reactivity. Oxides: Acidic, basic and amphoteric oxides. Preparation, structure, properties and uses of ozone and hydrogen peroxide.
Silica: Different forms and uses. Structures of silicates. Silicones, Zeolites, Uses of Silicon Tetra Chloride. Phosphorus: Production, allotropes and phosphine. Preparation and structures of $\mathrm{PCl}_{3}, \mathrm{PCl}_{5}$, oxyacids of phosphorus. Comparison of halides and hydrides of Group 15 elements. Sulphur: Production, allotropes, oxides and halides, Oxoacids of Sulphur (structure only). Sulphuric acid: Manufacture, properties and uses. Comparison of oxides, halides and hydrides of Group 17 elements, Oxoacids of halogens (structure only), hydrides and oxides of chlorine. Interhalogen compounds.

Group 18 elements: Occurrence, isolation, atomic and physical properties, uses. Compounds of xenon: Preparation of fluorides and oxides, and their reactions with water.

## UNIT 7: D-BLOCK AND F-BLOCK ELEMENTS

d-Block elements: Electronic configuration and general characteristics. Metallic properties, ionization energy, electrode potential, oxidation states, ionic radii, catalytic properties, coloured ions, complex formation, magnetic properties, interstitial compounds and alloys. Preparation and properties of $\mathrm{KMnO}_{4}, \mathrm{~K}_{2} \mathrm{Cr}_{2} \mathrm{O}_{7}$.
f-Block elements: Lanthanides: Occurrence, electronic configuration and oxidation states. Lanthanide contraction. Uses. Actinides: Occurrence, electronic configuration and comparison with lanthanides.

## UNIT 8: THERMODYNAMICS

System and surrounding: Types of systems. Types of processes. Intensive and extensive properties. State functions and path functions. Reversible and irreversible processes. First law of thermodynamics: Internal energy and enthalpy. Application of first law of thermodynamics. Enthalpy changes during phase transition. Enthalpy changes in chemical reactions. Standard enthalpy of formation. Hess's law of constant heat summation and numerical problems. Heat capacity and specific heat. Second law of thermodynamics: Entropy and Gibbs free energy. Free energy change and chemical equilibrium. Criteria for spontaneity.

## UNIT 9: CHEMICAL EQUILIBRIUM

Physical and chemical equilibria: Dynamic nature of equilibrium. Equilibria involving physical changes (solid-liquid, liquid-gas, dissolution of solids in liquids and dissolution of gases in liquids). General characteristics of equilibria involving physical processes. Equilibria involving chemical systems: Law of chemical equilibrium. Magnitude of equilibrium constant. Numerical problems. Effect of changing conditions of systems at equilibrium (changes of concentration, temperature and pressure). Effect of catalyst. The Le Chatelier principle and its applications. Relationship between $\mathrm{K}_{\mathrm{p}}$ and $\mathrm{K}_{\mathrm{c}}$. Ionic equilibrium. Ionization of weak and strong electrolytes. Concepts of acids and bases: Those of Arrhenius, Bronsted-Lowry and Lewis. Acid-base equilibrium. Ionization of water. pH scale. Salt hydrolysis. Solubility product. Common ion effect. Buffer action and buffer solutions.

## UNIT 10: SOLUTIONS

Types of solutions: Different concentration terms (normality, molarity, molality, mole fraction and mass percentage). Solubility of gases and solids. Vapour pressure of solutions and Raoult's law.

Deviation from Raoult's law. Colligative properties: Lowering of vapour pressure, elevation in boiling point, depression in freezing point and osmotic pressure. Ideal and non-ideal solutions. Determination of molecular mass. Abnormal molecular mass. The van't Hoff factor and related numerical problems.

## UNIT 11: REDOX REACTIONS AND ELECTROCHEMISTRY

Oxidation and reduction: Electron transfer concept. Oxidation number. Balancing equations of redox reactions: Oxidation number method and ion electron method (half reaction method).
Faraday's laws of electrolysis: Quantitative aspects. Electrolytic conduction. Conductance. Molar conductance. Kohlrausch's law and its applications. Electrode potential and electromotive force (e.m.f.). Reference electrode (SHE only). Electrolytic and Galvanic cells. Daniel cell. The Nernst equation. Free energy and e.m.f. Primary and secondary cells. Fuel cell ( $\mathrm{H}_{2}-\mathrm{O}_{2}$ only). Corrosion and its prevention: Electrochemical theory of rusting of iron. Methods of prevention of corrosion. Galvanization and cathodic protection.

## UNIT 12: CHEMICAL KINETICS

Rate of reaction. Average and instantaneous rates. Rate expressions. Rate constant. Rate law. Order and molecularity. Integrated rate law expressions for zero and first order reactions and their derivations. Units of rate constant. Half life period. Temperature dependence of rate constant. Arrhenius equation. Activation energy, Collision Theory (Elementary theory) and related numerical problems. Elementary and complex reactions with examples.

## UNIT 13: SURFACE CHEMISTRY

Adsorption: Physical and chemical adsorption. Factors affecting adsorption. Effect of pressure. Freundlisch adsorption isotherm. Catalysis. Enzymes. Zeolites. Colloids: Colloids and suspensions. Dispersion medium and dispersed phase. Types of colloids: Lyophobic, lyophilic, multimolecular, macromolecular and associated colloids. Preparation, properties and protection of colloids. Gold number. Hardy Schulze rule. Emulsions.

## UNIT 14: COORDINATION COMPOUNDS AND ORGANOMETALLICS

Ligand. Coordination number. IUPAC nomenclature of coordination compounds mononuclear, Isomerism in coordination compounds. Geometrical, optical and structural isomerism. Bonding in coordination compounds. Werner's coordination theory. Valence bond approach. Hybridization and geometry. Magnetic properties of octahedral, tetrahedral and square planar complexes. Introduction to crystal field theory. Splitting of d orbitals in octahedral and tetrahedral fields (qualitative only). Importance of coordination compounds in qualitative analysis and biological systems such as chlorophyll, hemoglobin and vitamin $\mathrm{B}_{12}$ (structures not included).

## UNIT 15: BASIC PRINCIPLES, PURIFICATION AND CHARACTERIZATION OF ORGANIC COMPOUNDS

Distinction between organic and inorganic compounds. Tetra valence of carbon. Catenation. Hybridization ( $\mathrm{sp}, \mathrm{sp}^{2}$ and $\mathrm{sp}^{3}$ ). Shapes of simple molecules. General introduction to naming of organic compounds. Trivial names and IUPAC nomenclature. Illustrations with examples. Structural isomerism. Examples of functional groups containing oxygen, hydrogen, sulphur and halogens. Purification of carbon compounds: Filtration, crystallization, sublimation, distillation, differential extraction and chromatography (column and paper only). Qualitative analysis: Detection of carbon, hydrogen, nitrogen and halogens. Quantitative analysis: Estimation of carbon, hydrogen, nitrogen, sulphur, phosphorus and halogens (principles only), and related numerical problems. Calculation of empirical and molecular formulae.

## UNIT 16: HYDROCARBONS

Classification of hydrocarbons. Alkanes and cycloalkanes: Nomenclature and conformation of ethane. 3D structures and 2D projections (Sawhorse and Newman). Alkenes and alkynes: Nomenclature. Geometrical isomerism in alkenes. Stability of alkenes. General methods of preparation. Physical and chemical properties. Markownikoff's rule. Peroxide effect. Acidic character of alkynes. Polymerization reactions of dienes.

Aromatic hydrocarbons: Nomenclature. Isomerism. Benzene and its homologues. Structure of Benzene. Resonance. Delocalisation in benzene. Concept of aromaticity (an elementary idea). Chemical reactions of benzene. Polynuclear hydrocarbons and their toxicity.

Electronic displacement in a covalent bond: Inductive, electromeric, resonance and hyperconjugation effects. Fission of a covalent bond. Free radicals, electrophiles, nucleophiles, carbocations and carbanions.

Common types of organic reactions: Substitution, addition, elimination and rearrangement reactions. Illustrations with examples. Mechanism of electrophilic addition reactions in alkenes. Concept of delocalisation of electrons. Mechanism of electrophilic substitution reactions. Directive influence of substituents and their effect on reactivity (in benzene ring only).

## UNIT 18: STEREOCHEMISTRY

Stereoisomerism: Geometrical isomerism and optical isomerism. Specific rotation. Chirality and chiral objects. Chiral molecules. Configuration and Fischer projections. Asymmetric carbon. Elements of symmetry. Compounds containing one chiral center. Enantiomers. Racemic form. Racemization. Compounds containing two chiral centers. Diastereo isomers. Meso form. Resolution.
UNIT 19: ORGANIC COMPOUNDS WITH FUNCTIONAL GROUPS CONTAINING HALOGENS
Haloalkanes and haloarenes: Nomenclature and general methods of preparation. Physical properties. Nature of C-X bond in haloalkanes and haloarenes. Chemical properties and uses of chloromethane and chlorobenzene. Polyhalogen compounds: Preparation and properties of chloroform and iodoform. Uses of some commercially important compounds (chloroform, iodoform, DDT, BHC and freon).

## UNIT 20: ORGANIC COMPOUNDS WITH FUNCTIONAL GROUPS CONTAINING OXYGEN

Alcohols: Nomenclature. Important methods of preparation (from aldehydes, ketones, alkyl halides and hydration of alkenes). Manufacture of ethanol from molasses. Physical and chemical properties. Reactions with alkali metals and acids. Formation of alkenes, ethers and esters. Reactions with $\mathrm{PX}_{3}$, $\mathrm{PX}_{5}, \mathrm{SOCl}_{2}$. Oxidation of alcohols. Dehydrogenation.

Phenols: Nomenclature. Preparation of phenol (from sodium benzenesulphonate, benzene diazoniumchloride and chlorobenzene). Physical and chemical properties of phenol. Acidity of phenol. Action of phenol with $\mathrm{FeCl}_{3}$. Bromination, sulphonation and nitration of phenol.
Ethers: Nomenclature. Methods of preparation (from alcohols and alkyl halides). Williamson's synthesis. Physical and chemical properties. Formation of peroxides. Actions with $\mathrm{HI}, \mathrm{HF}$ and $\mathrm{H}_{2} \mathrm{SO}_{4}$.
Some commercially important compounds: Methanol, ethanol (fermentation).
Aldehydes and ketones: Nomenclature. Electronic structure of carbonyl group. Methods of preparation (from alcohols, acid chlorides, ozonolysis of alkenes and hydration of alkynes). FriedelCrafts acylation for acetophenone. General properties (physical and chemical) of aldehydes and ketones. Formation of paraldehyde and metaldehyde. Addition of $\mathrm{NaHSO}_{3}, \mathrm{NH}_{3}$ and its derivatives, Grignard reagent, HCN and alcohols. Oxidation reactions with Tollen's reagent and Fehling's solution. Oxidation of ketones. Reduction with $\mathrm{LiAlH}_{4}$. Clemmensen reduction. Wolff- Kischner reduction. Aldol condensation. Cannizzaro reaction.

Carboxylic acid: Nomenclature. Electronic structure of -COOH. Methods of Preparation (from alcohols, aldehydes, ketones, alkyl benzenes and hydrolysis of cyanide). Physical properties. Effects of substituents on acid strength. Chemical reactions.

## UNIT 21: ORGANIC COMPOUNDS WITH FUNCTIONAL GROUPS CONTAINING NITROGEN

Amines: Nomenclature. Primary, secondary and tertiary amines. Methods of preparation. Physical properties. Basic nature. Chemical reaction. Separation of primary, secondary and tertiary amines. Cyanides and isocyanides. Diazonium salts. Preparation and chemical reactions of benzene diazoniumchloride in synthetic organic chemistry.
UNIT 22: POLYMERS AND BIOMOLECULES
Polymers: Classification. Addition and condensation polymerization. Copolymerization. Natural rubber and vulcanization. Synthetic rubbers. Condensation polymers. Biopolymers. Biodegradable polymers. Some commercially important polymers: Polyethene, polystyrene, PVC, Teflon, PAN, BUNA-N, BUNA-S, neoprene, Terylene, glyptal, nylon-6, nylon-66 and Bakelite.

Biomolecules: Classification of carbohydrates. Structure and properties of glucose. Reducing and non-reducing sugars: Properties of sucrose, maltose and lactose (structures not included). Polysaccharides: Properties of starch and cellulose. Proteins: Amino acids. Zwitterions. Peptide
bond. Polypeptides. Primary, secondary and tertiary structures of protein. Denaturation of proteins. Enzymes. Nucleic acids. Types of nucleic acids. DNA and RNA, and their chemical composition. Primary structure of DNA. Double helix. Vitamins: Classification and functions in biosystems.

## UNIT 23: ENVIRONMENTAL CHEMISTRY AND CHEMISTRY IN EVERY DAY LIFE

Soil, water and air pollutions. Ozone layer. Smog. Acid rain. Green house effect and global warming. Industrial air pollution. Importance of green chemistry.
Chemicals in medicine and health care. Drug-target interaction, Analgesics, tranquillizers, antiseptics, antacids, antihistamines, antibiotics, disinfectants, antifertility drugs, chemicals in food, preservatives, artificial sweetening agents, antioxidants and edible colours, cleansing agents, soaps and synthetic detergents, antimicrobials.

## BIOLOGY

## UNIT 1 : DIVERSITY IN THE LIVING WORLD

Characters of Living organisms, Biosystematics, Binomial nomenclature (guidelines and merits), Taxonomic_categories, Taxonomical Aids, Systems of classification - Two Kingdom and Five Kingdom classification - (brief description with emphasis on criteria, merits and demerits). Descriptive features of kingdoms: Monera, Protista, Fungi, Plantae and Animalia; viruses, Viriods and Lichens.

## UNIT 2 : PLANT KINGDOM

Brief description of Artificial, natural and phylogenetic classification.

### 2.1 PLANT GROUPS

Algae - Salient, comparative features of Rhodophyta, Phaeophyta and Chlorophyta with examples.
Bryophyta - General features with special mention on aquatic to terrestrial evolution, alternation of generation of Liverworts and Mosses.
Pteridophytes - General features with examples
Gymnosperms - General features with examples
Angiosperms - Unique features with examples
Plant Life Cycle and alternation of generation

### 2.2 Morphology of Angiosperms

Morphological structures of root, stem and leaf, their structural and functional modifications with examples, Inflorescence - Racemose, Cymose, morphological characters of flower, fruit and seed.

### 2.3 Taxonomy of Angiosperms

Description of taxonomical types, families such as Fabaceae, Solanacea and Liliaceae with examples.

### 2.4 Anatomy of flowering plants

Tissue: Meristematic (Classification based on origin, position and plane of division); Permanent (Simple and complex types); Tissue systems (epidermal, ground and vascular); Anatomy of root and stem (primary structure) of monocot and dicot; Anatomy of leaf of monocot and dicot; Normal secondary growth of stem and root.

## UNIT 3: CELL AND CELL DIVISION

3.1 Cell as a basic unit of life; Cell theory; Cell as a self-contained unit, unicellularity and multicellularity, prokaryotic and eukaryotic systems.
3.2 Ultra Structure: Prokaryotic and eukaryotic cell, cell wall, cell membrane (Fluid Mosaic Model), membrane transport, description of cell organelles and their function (nucleus, mitochondria, plastids, endoplasmic reticulum, golgi bodies, lysosomes, cytoskeletal structures, cilia and flagella, centriole, ribosomes).
3.3 Biomolecules of cell: Inorganic and organic materials (carbohydrates, lipids, proteins, nucleic acids -RNA, DNA), enzymes (properties, chemical nature and mechanism of action).
3.4 Cell cycle: Cell division, mitosis and meiosis - their significance.

UNIT 4 : PHYSIOLOGY OF PLANTS
4.1 Transport in plants - Means of transport (imbibition, diffusion, osmosis, plasmolysis, permeability, water potential), absorption and movement - active and passive. Transpiration: Mechanism of opening and closing of stomata, guttation, significance of transpiration. Uptake and transport of mineral nutrients.
4.2 Mineral nutrition: Functions of minerals, macro and micro elements, deficiency symptoms of elements. Toxicity of micronutrients, Nitrogen metabolism: Nitrogen cycle, biological nitrogen fixation, mechanism, synthesis of amino acids (reductive amination, transamination).
4.3 Photosynthesis: Significance, photosynthetic apparatus, functional aspects of chlorophyll structure, action spectra and absorption spectra. Mechanism: Photochemical phase, photo phosphorylation (cyclic and non cyclic electron transport system), chemiosmotic hypothesis, biosynthetic phase (C3, C4); Photorespiration and its mechanism; Factors affecting photosynthesis (Blackmann's law of limiting factor).
4.4 Respiration: Significance, site of respiration, mechanism: Glycolysis, Kreb's cycle, electrontransport system and oxidative phosphorylation, amphibolic pathway; Respiratory quotient; Anaerobic respiration, fermentation.

## UNIT 5 : REPRODUCTION, GROWTH AND DEVELOPMENT

5.1 Modes of reproduction in flowering plants Vegetative propagation (natural and artificial), micropropagation, significance. Sexual reproduction: Development of male and female gametophytes, pollination types and factors, double fertilization, incompatibility; seed and fruit development, parthenogenesis and parthenocarpy, polyembryonic.

### 5.2 Plant Growth

Characteristic features, measurement of growth, growth curve, growth rate, differentiation and growth regulators (phytohormones): auxins, gibberellins, cytokinines, ethylene, abscisic acid (ABA) and their role. photoperiodism and vernalisation.

## UNIT 6 : ECOLOGY AND ENVIRONMENT

6.1 Organisms and population - Organism and its environment: Factors: biotic, abiotic (air, water, soil, temperature and light); responses to abiotic factors, adaptations, population, population attributes, population growth, Interactions, predation, competition, parasitism, commensalism and mutualism.
6.2 Ecosystem: Structure and function, productivity, decomposition, energy flow, ecological pyramids, ecological succession, nutrient cycling, brief descriptions of major biomes.
6.3 Environmental Issues: Sources of air, water, soil and noise pollution; Major pollutants, their effects and methods of control. Pollution due to radioactive substance, disposal of nuclear wastes. effect and control of radiation pollution, agrochemical and their effects, Green house effect and global warming, ozone depletion, deforestation.

## UNIT 7 : BIOTECHNOLOGY

Principles of biotechnology, tools of recombinant DNA technology, process of recombinant DNA technology, biotechnological application in agriculture, genetically modified crops, biotechnological applications in medicine, genetically engineered insulin, gene therapy, molecular diagnosis, transgenic animals and ethical issues.

## UNIT 8 : ORIGIN AND EVOLUTION OF LIFE

8.1 Origin of life, Big bang theory, various theories, panspermia, abiogenesis, chemical evolution -Oparin-Haldane Hypothesis, Harold Urey \& Stanley Miller experiment, Theories of Evolution Lamarckism, Theory of Inheritance of Acquired Character, Theory of Use and Disuse, Darvinism Natural selection theory, Example of natural selection - Industrial Melanism, Geological timescale.
8.2 Evidences of Evolution - Palaentological, Morphological and Anatomical evidences of evolution
8.3 Population Genetics \& Evolution - Hardy Weinberg's Equilibrium, genetic drift, founder effect.
8.4 Adaptive radiation - Adaptive radiation of marsupials of Australia
8.5 Origin and Evolution of Man

UNIT 9 - ANIMAL KINGDOM
9.1 Salient features of different Phyla with examples, Grades of organization and body plan, body symmetry, germ layers (diploblastic \& triploblastic organization), segmentation, coelom
Phylum Porifera eg: Sycon, Leucosolenia, Spongilla
Phylum Cnidaria eg: Hydra, Obelia, Physalia, Aurelia, Sea Anemone, Corals
Phylum Ctenophora eg: pleurobrachia, etenoplana
Phylum Playhelminthes eg.: Taenia, Fasciola, Planaria
Phylum Aschelminthes eg: Ascaris, Rhabditis, Wuchereria, Ancylostoma
Phylum Annelida eg: Nereis, Aphrodite, Pheretima, Hirudinaria
Phylum Arthropoda eg: Honeybee, Silkworm, Lacinsect, Anophelus, Locus, Limulus
Phylum Mollusca eg: Pila, Pinctada, Sepia, Loligo, Octopus, Aplysia, Deutalium, Chaetopleura
Phylum Echinodermata eg: Asterias, Echinus, Antedon, Sea cucumber, Ophiura.
Phylum Hermichordata eg: Balanoglosus, Saccoglosus
Phylum Chordata - Urochordata eg: Ascidia, Salpa doliolum
Cephalochordata eg: Amphioxus
Vertebrata - Classification up to classes
Super class I. Agnatha. Class - Cyclostomata eg: Petromyzon and Myxine.
Super class II. Gnathostomata Class a - Chondrichthyes (Cartilaginous fishes) eg: Scoliodon, Pristis, carcharodon, Trygon.
Class b. Osteichthyes (Bony fishes) eg.: Exocoetus, Hippocampus, Rohu, Catla, Clarius, Betta, Pterophyllum.
Class c. Amphibia - eg: Bufo, Rana, Hyla, Salamander, Ichthyophis.
Class d. Reptilia eg: Chelone, Chameleon, Testudo, Hemidactylus, Calotes, Naja, Krait, Viper, Crocodile, Alligator.
Class e. Aves - eg: Corvus, Columba, Psittacula, Struthio, Pavo, Penguin, Vulture.
Class f. Mammalia eg: Platypus, Kangaroo, Whale, Macaca, Panthera, Elephus, Horse, Rat, Dolphin, Cat, Camel, Pteropus.

## UNIT 10 : STRUCTURAL ORGANISATION OF THE BODY

10.1 Animal Morphology: External and internal morphology, Earthworm, Cockroach, Frog.
10.2 ANIMAL TISSUES - Definition, Types of tissues - Epithelial tissue - different types with examples, specialized epithelial tissue with examples, Connective tissue with examples, Muscular tissue with examples, Nervous tissue with examples, Structure and functions of these tissues.

## UNIT 11: GENETICS

11.1 Heredity and variation - Mendel's experiments, Laws of Mendel, Chromosome theory of inheritance, Pattern of inheritance, Incomplete dominance, Codominane chromosomes, Prokaryotic \& Eukaryotic Chromosomes, Nucleosomes, Chromosome theory of inheritance, Concept of linkage and crossing over, Principle of gene mapping, sex linked inheritance, sex determination, sex limited and sex influenced inheritance, Mutation, Gene mutation, Chromosomal aberration, Polyploidy, aneuploidy and Euploidy, Mutation causing agents, Human Genetics, Pedigree Analysis, Genetic Disorders, Sickle cell anaemia, Phenylketonuria, Alzheimer's disease, Down's Syndrome, Klinefelter's Syndrome.
11.2 Nature of Genetic Material: DNA and its structure, Different types of DNA, RNA and its structure, Experiments to prove genetic nature of DNA. DNA and Gene, DNA Replication, Gene expression- Gene and Protein, Biosynthesis of Protein, Genetic code, Regulation of Gene expression in prokaryotes and eukaryotes, Human genome project and DNA finger printing

UNIT 12 : PHYSIOLOGY OF ANIMALS
12.1 Nutrition, Different types of nutrition, Different types of nutrients, Malnutrition, Under nutrition, Disorders related to nutrition. Digestion - Human digestive system, Structure of alimentary canal, Glands associated with alimentary canal, Different enzymes secreted by the alimentary canal, Functions of various enzymes, Role of various regions of alimentary canal in absorption, Process of ingestion and digestion, Mechanism of absorption and assimilation of digested food components.
12.2 Respiration - Aerobic and Anaerobic Respiration, Mechanism of gas exchange, Human Respiratory system, Respiratory organs and mechanism involved in pulmonary respiration, Gas exchange and transport of respiratory gases, Respiratory pigments involved, Regulation of respiration, Respiratory
disorders, Bronchitis, Bronchial Asthma, Emphysema, Occupational lung diseases, Causes of these disorders - symptoms, prevention and cure.
12.3 Circulation - composition of blood, structure and functions of different types of blood cells, Blood groups, Structure and working of heart, pulmonary, systemic and portal circulation, Pulse, heart beat and blood pressure, Rhythmicity of heart, Regulation of heart beat, Blood related disorders hypertension, atherosclerosis and arteriosclerosis, Electro cardio gram, Heart failure, Lymph and its functions.
12.4 Excretion - Definition, Different types of excretory organs - Skin, lungs and liver as excretory organs, Nitrogenous excretion, Different types of Nitrogenous excretion with examples, Ammenotelism, ureotelism and uricotelism, Excretory system in man, Structure of kidney, Composition and formation of urine, Role of Kidney in osmoregulation, Hormonal regulation of excretory system, Dialysis.
12.5 Locomotion and Movement - Human skeleton, Axial and appendicular skeleton, Joints, Types of joints with examples, Bone and cartilage, Structure of Bone and Cartilage, Disordres of bone and cartilage - Arthritis and Osteoporosis, Muscles, Different types of muscles, Structure of skeletal muscles, Mechanism of muscle contraction, Role of red and white muscles in movement, Role of muscles and bones in movement.
12.6 Nervous Co-ordination, Human nervous system, Morphology of functional subsystems of nervous system, Different types of nerve cells, Structure and functions of brain and spinal cord, Nerve impulse, Synapse, Transmission and conduction of nerve impulse, Reflex action, Reflex arc, Sensory receptors, Structure and functions of eye and ear.
12.7 Hormones, Different types of hormones, Hormones produced by human endocrine glands and their functions, Hormone imbalance and disorders, Role of hormones as messengers and regulators, Feed back control of various hormones. Mechanism of hormone action.

## UNIT 13 : REPRODUCTION AND DEVELOPMENT IN ANIMALS

13.1 Reproduction, Different types of asexual reproduction with examples, Sexual reproduction, Reproductive organs, Structure and function of human male and female reproductive system, Reproductive cycle in human female, Gametogenesis, fertilization (Physical and chemical events), Development of zygote up to 3 germinal layers and their derivatives, Extra embryonic membranes, Structure and functions of placenta, parturition and lactation.
13.2 Reproductive health - Population explosion and birth control, Medical termination of pregnancy, sexually transmittable diseases, Infertility.

## UNIT 14 : BIODIVERSITY AND CONSERVATION

Biodiversity definition, Significance of biodiversity, Magnitude of biodiversity, Levels of biodiversity, gradients of biodiversity, Uses of biodiversity, Threats of biodiversity, Endangered species, Extinction, Causes of extinction, Conservation of biodiversity, protected areas, National and International efforts, Role of Governmental and non-governmental organizations in conservation of bio-diversity, Environmental ethics, Responsibility of individual in biodiversity conservation.

## UNIT 15 : BIOLOGY IN HUMAN WELFARE

15.1 Human Health and Diseases - common diseases in humans - Typhoid, pneumonia, common cold, malaria, amoebiasis, ascariasis, elephantiasis. Immunity - innated and acquired, active and passive immunity, vaccination and immunization, allergies, autoimmunity, immune system in the body, AIDS, cancer, drugs and alcohol abuse, common problems of adolescence, Social and moral implications, Problems associated with drugs, smoking and alcoholism, prevention and control.
15.2 Strategies for enhancement in food production, Animal husbandary, dairy farming, poultry farming, animal breeding, bee keeping, pisciculture, plant breeding, breeding for disease resistance and tissue culture, single cell protein.
15.3 Microbes in human welfare - Microbes in household projects, microbes in industrial products, fermented beverages, antibiotics, chemicals, enzymes and other bioactive molecules - microbes in sewage treatment, microbes in production of biogas, microbes as biocontrol agents and microbes as biofertilizers.

# ANNEXURE - II (1) (a) <br> COLLEGES UNDER ENGINEERING / ARCHITECTURE COURSES 

(See Clauses 2.3 \& 2.4)
[Please refer to Description of Course Codes in Annexure II (1) (b)]
I. ENGINEERING COLLEGES UNDER THE DIRECTOR OF TECHNICAL EDUCATION (DTE)

Government

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :--- | :---: | :---: |
| 1 | IDK | Govt. Engineering College, <br> Painavu, Idukki | KTU | CS-60, EC-60, EE-60, <br> IT-60, ME-60 | 300 | $04862-233250$ |
| 2 | KKE | Govt. Engineering College, <br> Kozhikode | KTU | AE-60, CE-60, CH-60, <br> ME-60, EC-60 | 300 | $0495-2383220$, <br> 2383210 |
| 3 | KNR | Govt. College of Engineering, <br> Kannur | KTU | CE-60, CS-60, EC-90, <br> EE-60, ME-60 | 330 | $0497-2780226$, <br> 2781226 |
| 4 | KTE | Rajiv Gandhi Institute of Technology, <br> Pampady, Kottayam | KTU | AR-40, CE-60, CS-60, <br> EC-60, EE-60, ME-60 | 340 | $0481-2506153$, <br> 2507763 |
| 5 | PKD | Govt. Engineering College, <br> Sreekrishnapuram, Palakkad | KTU | CS-60, EC-60, IT-60, <br> ME-60 | 240 | $0466-2260350$, <br> 2260565 |
| 6 | TCR | Govt. Engineering College, <br> Thrissur | AR-40, CE-90, CH-50, <br> CS-60, EC-60, EE-100, <br> ME-100, PE-30 | 530 | $0487-2334144$ |  |


| Aided |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { SI. } \\ \text { No. } \end{gathered}$ | Code | College | University | Courses offered No. of seats | Total Seats | Phone No. |
| 10 | MAC | Mar Athanasius College of Engineering, Kothamangalam, Ernakulam | KTU | CE-120, CS-60, EC-120, EE-120, ME-120 | 540 | $\begin{aligned} & 0485-2822363, \\ & 2823383 \end{aligned}$ |
| 11 | NSS | N.S.S. College of Engineering, Akathethara P O, Palakkad | KTU | CE-120, CS-60, EC-90, <br> EE-120, IC-60, ME-120 | 570 | $\begin{aligned} & 0491-2555255, \\ & 2555900 \end{aligned}$ |
| 12 | TKM | T.K.M. College of Engineering, Kollam | KTU | AR-80, CE-120, CH-60, CS-60, EC-120, EE-120, ME-120, MP-60 | 740 | $\begin{aligned} & 0474-2712022, \\ & 2712024 \end{aligned}$ |

Note: Seats available for mandatory reservation: See Clause 4.1.5
II. COLLEGE UNDER THE KERALA AGRICULTURAL UNIVERSITY (KAU)

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | KCT |  <br> Technology, Tavanur, Malappuram | KAU | AG-49, FE-30 | 79 | $0494-2686214$ |

III. COLLEGES UNDER THE KERALA VETERINARY \& ANIMAL SCIENCES UNIVERSITY (KVASU)

| Sl. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :--- | :---: | :--- |
| 1 | CDT | College of Dairy Science \& Technology, <br> Mannuthy, Thrissur | KVASU | DS-100 | 100 | $0487-2372861$ |
| 2 | CDP | College of Dairy Science \& Technology, <br> Pookode Campus, Wayanad | KVASU | DS-40 | 40 | $0493-6256380$, <br> 6256390 |
| 3 | CDV | College of Dairy Science \& Technology, <br> Chettachal, Vithura, Nedumangadu | KVASU | DS-40 | 40 | $0472-2888288$ |
| 4 | CFT | College of Food Technology | KVASU | FT-40 | 40 | $0487-2748016$ |

IV. SELF-FINANCING COLLEGES UNDER THE INSTITUTE OF HUMAN RESOURCES DEVELOPMENT (IHRD)

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :--- | :---: | :---: |
| 1 | ADR | College of Engineering, Adoor, <br> Pathanamthitta | KTU | CS-60, EC-120, EE-60, <br> ME-120 | 360 | $04734-230640$, <br> 231995 |
| 2 | CEA | College of Engineering, Attingal, <br> Thiruvananthapuram | KTU | CS-60, EC-60, EE-60 | 180 | $0470-2627400$, <br> 2624449 |
| 3 | CEC | College of Engineering, Pallippuram, <br> Cherthala, Alappuzha | KTU | CS-90, EC-120, EE-60 | 270 | $0478-2553416$, <br> 2552714 |
| 4 | CEK | College of Engineering, Kottarakkara, <br> Kollam | KTU | CS-60, EC-60 | 120 | $0474-2453300$, <br> 2458674 |
| 5 | CHN | College of Engineering, Chengannur, <br> Alappuzha | KTU | CS-120, EC-120, EE-120, <br> EI-60 | 420 | $0479-2451424$, <br> 2454125 |
| 6 | KNP | College of Engineering, Karunagappally, <br> Kollam | KTU | CS-60, EC-60, EE-60 | 180 | $0476-2665935$, <br> 2666160 |
| 7 | MDL | Model Engineering College, Thrikkakara, <br> Ernakulam | KTU | BM-60, CS-120, EC-120, <br> EE-60 | 360 | $0484-2575370$, <br> 2577379 |
| 8 | PJR | College of Engineering, Poonjar, Kottayam | KTU | CS-60, EC-60, EE-60 | 180 | $04822-271737$ |
| 9 | PTA | College of Engineering, Kallooppara, <br> Pathanamthitta | KTU | CS-60, EC-60, EE-60 | 180 | $0469-2678983$, <br> 2677890 |

## V. SELF-FINANCING COLLEGES UNDER THE LAL BAHADUR SASTRI CENTRE FOR SCIENCE \& TECHNOLOGY (LBS)

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: | :---: |
| 10 | KSD | LBS College of Engineering, <br> Muliyar P O, Kasaragod | KTU | CE-60, CS-120, EC-120, <br> EE-60, IT-60, ME-120 | 540 | $04994-250290$, <br> 251566 |
| 11 | LBT | LBS Institute of Technology for Women, <br> Poojappura, Thiruvananthapuram | KTU | AE-60, CE-60, CS-120, <br> EC-60, IT-60 | 360 | $0471-2349232$, <br> 2343395 |

VI. SELF-FINANCING COLLEGES UNDER THE CO-OPERATIVE ACADEMY OF PROFESSIONAL EDUCATION (CAPE)

| SI. <br> No. | Code | College | University | Courses offered <br> No, of seats | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: | :---: |
| 12 | AEC | College of Engineering, Aranmula, <br> Pathanamthitta | KTU | CE-60, CS-60, EC-60, <br> EE-60 | 240 | $0468-2319131$, <br> 2278731 |
| 13 | KGR | College of Engineering, Kidangoor, <br> Kottayam | KTU | CE-60, CS-60, EC-60, <br> EE-60, EI-60, IT-45 | 345 | $04822-255056$, <br> 256056 |
| 14 | PEC | College of Engineering, Pathanapuram, <br> Kuriottumala, Elikattor P O, Kollam | KTU | CE-60, CS-60, EC-60, <br> EE-60 | 240 | 04752022810 |
| 15 | PRN | College of Engineering, Perumon, Kollam | KTU | CS-60, EC-120, EE-60, <br> IT-60, ME-60 | 360 | $0474-2550400$, <br> 2550500 |
| 16 | PRP | College of Engineering \& Management, <br> Punnapra, Alappuzha | KTU | CE-60, CS-60, EC-60, <br> EE-60, IT-60, ME-60 | 360 | $0477-2267311$, <br> 266711 |
| 17 | TKR | College of Engineering, Trikaripur, <br> Kasaragod | KTU | CE-60, CS-60, EC-60, <br> EE-60, IT-30 | 270 | $0467-2250377$, <br> 2250977 |
| 18 | TLY | College of Engineering, Thalassery, <br> Kannur | KTU | CS-54, EC-108, EE-54, <br> IT-54, ME-54, CE-60 | 384 | $0490-2388930$, <br> 2307190 |
| 19 | VDA | College of Engineering, Mandarathur P.O., <br> Vadakara, Kozhikode | KTU | CE-60, CE-60, EC-60, <br> EE-60, EI-60, IT-60 | 360 | $0496-2536125$, <br> 2537225 |

VII. SELF-FINANCING COLLEGE UNDER THE KSRTC

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | SCT | Sree ChitraThirunal College of <br> Engineering, Pappanamcode, <br> Thiruvananthapuram | KTU | BT-60, CS-60, EC-120, <br> MA-60, ME-60, MP-60 | 420 | $0471-2490572$, <br> 2490772 |

VIII. SELF-FINANCING COLLEGE UNDER THE MAHATMA GANDHI UNIVERSITY

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21 | UCE | University College of Engineering, <br> Thodupuzha, Idukki | MG | CS-60, EC-60, EE-60, <br> IT-60, PO-60 | 300 | $04862-256222$, <br> 256534 |

IX. SELF-FINANCING COLLEGE UNDER THE UNIVERSITY OF KERALA

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22 | UCK | University College of Engineering, <br> Kariavattom, Thiruvananthapuram | Kerala | CS-60, EC-60, IT-60 | 180 | $0471-2308874$, <br> 2418045 |

X. SELF-FINANCING COLLEGE UNDER THE UNIVERSITY OF CALICUT

| Sl. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 | UCC |  <br> Technology, Tenhipalam, Malappuram | Calicut | EC-60, EE-60, IT-60, <br> ME-60, PT-30 | 270 | $0494-2400223$ |

XI. SELF-FINANCING COLLEGE UNDER THE CENTRE FOR CONTINUING EDUCATION (CCE)

| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | MNR | College of Engineering, Munnar, Idukki | KTU | CS-60, EC-60, EE-60, <br> ME-60 | 240 | $04865-230606$, <br> 232989 |

XII. PRIVATE SELF FINANCING COLLEGES

| $\begin{aligned} & \text { SI. } \\ & \text { No. } \end{aligned}$ | Code | College | University | Courses offered No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | AAE | Al-Azhar College of Engineering \& Tech., Perumpillichira, Thodupuzha, Idukki | KTU | AU-60, CE-120, CS-60, <br> EC-60, ME-120 | 420 | $\begin{aligned} & 04862-227944, \\ & 229193 \end{aligned}$ |
| 2 | AAP | Al-Ameen Engineering College, Shoranur, Palakkad | KTU | CE-120, EC-120, EE-60, ME-120 | 420 | $\begin{aligned} & 0466-3025000, \\ & 3025007 \end{aligned}$ |
| 3 | ACE | Archana College of Engineering, Palamel, Nooranad P O, Alappuzha | KTU | CE-60,CS-60, EC-60, EE- <br> 60, ME-120 | 360 | $\begin{aligned} & 0479-2388081, \\ & 2388060 \end{aligned}$ |
| 4 | AIK | Albertian Institute of Science and Technology, Kalamassery, Kochi - 682022 | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 04842540360, \\ & 6526299 \end{aligned}$ |
| 5 | AJC | Amal Jyothi College of Engineering, <br> Koovapally P.O., Kanjirapally, <br> Kottayam - 686518 | KTU | AU-60, CE-120, CH-60, CS-120, EC-120, EE-60, IT-60, ME-120, MT-60 | 780 | $\begin{aligned} & 64828305555, \\ & 8305500 \end{aligned}$ |
| 6 | AME | Ammini College of Engineering, Kannampariyaram, Mankara P O, Palakkad | KTU | CE-120, CS-60, EC-60, <br> EE-60, ME-120 | 420 | $\begin{aligned} & 0491-2873699, \\ & 2873599 \end{aligned}$ |
| 7 | ANE | Aryanet Institute of Technology, Vadakkente kadu, Vallikkadu, Mundoor (via) Palakkad 678592 | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 04912832488, \\ & 04662268020 \end{aligned}$ |
| 8 | ASI | Adi Shankara Institute of Engineering \& Technology, Kalady, Ernakulam | KTU | AE-60, CE-60, CS-60, EC-120, EE-60 , IT-60, ME-120, | 540 | $\begin{aligned} & 0484-2463825, \\ & 2463062 \end{aligned}$ |


| $\begin{aligned} & \text { SI. } \\ & \text { No. } \end{aligned}$ | Code | College | University | Courses offered No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | ATP | Ahalia School of Engineering \& Technology, Kozhippara, Pudussery, Palakkad - 678 557 | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 04923207777, \\ & 3225000 \end{aligned}$ |
| 10 | AWH | AWH Engineering College, Kuttikkattoor, Kozhikode | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-120, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 360 | $\begin{aligned} & 0495-2356144, \\ & 2352662,2352552 \end{aligned}$ |
| 11 | AXE | Axis College of Engineering \& Technology, Ambanoly, Kodakara Via, Murikkingal P O, Thrissur | KTU | $\begin{aligned} & \text { CE-120, CS-60, EC-60, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 420 | $\begin{aligned} & 0480-2744501, \\ & 2744500 \end{aligned}$ |
| 12 | BJK | Bishop Jerome Institute, Fathima College Road, Kollam - 691001 | KTU | CE-60, EC-60, EE-60, ME60 | 240 | $\begin{aligned} & 04742764052, \\ & 6060610 \end{aligned}$ |
| 13 | BMC | Baselios Mathews II College of Engineering, Sasthamcotta, Kollam | KTU | AE-60, CE-60, CS-60, EC60, EE-60, ME-60 | 360 | $\begin{aligned} & 0476-2835579, \\ & 2830778 \end{aligned}$ |
| 14 | BTE | Baselios Thomas I Catholicose College of Engineering \& Technology, Koothattukulam, Ernakulam | KTU | CE-60, CS-60, EC-60, EE- <br> 60, ME-60 | 300 | $\begin{aligned} & 0485-2251577, \\ & 2275484 \end{aligned}$ |
| 15 | CCE | Christ College of Engineering, Irinjalakuda, Thrissur | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | 0480285355 |
| 16 | CCV | Cochin College of Engineering \& Technology, Valiyaparambu, Edayur (via) Valanchery, Malappuram - 676552 | KTU | CE-120, CH-60, CS-60, EC-60, EE-60, ME-120, MR-60 | 540 | $\begin{aligned} & 04942640172, \\ & 2640173 \end{aligned}$ |
| 17 | CEN | College of Engineering \& Technology, Payyannur, Kaithapram, Mathamangalam P O, Kannur | KTU | CE-60, EC-60, EE-60, ME60 | 240 | $\begin{aligned} & 04985-279842, \\ & 277842 \end{aligned}$ |
| 18 | CIM | Cochin Institute of Science \& Technology, Ettappilly, Mannathur P.O., Muvattupuzha, Ernakulam - 686723 | KTU | AU-60, CE-120, CS-120, EC-60, EE-60, ME-120 | 540 | $\begin{aligned} & \hline 04852877444, \\ & 2877445 \end{aligned}$ |
| 19 | CKC | Christ Knowledge City, Kuzhoor, Airapuram P O, Ernakulam (For women only) | KTU | AE-60, CE-120, CS-120, <br> EC-120, EE-60 | 480 | $\begin{aligned} & 0484-2651482, \\ & 2651483,2651484 \end{aligned}$ |
| 20 | CMA | Carmel College of Engineering \& Technology, Punnapra, Alappuzha | KTU | CE-60, EE-60, ME-60 | 180 | 0477-2287248 |
| 21 | CML | Believers Church Caarmel Engineering College, Perunad, Pathanamthitta | KTU | CE-60, CS-60, EC-60, <br> EE-60, IT-60, ME-60 | 360 | $\begin{aligned} & 04735-240990, \\ & 240991 \end{aligned}$ |
| 22 | DMC | M Dasan Institute of Technology, Ulliyeri P.O. Kozhikode - 673620 | KTU | AE-60, CE-120, CS-60, EC-60, EE-60, ME-60 | 420 | $\begin{aligned} & 04962664700, \\ & 2664702 \end{aligned}$ |
| 23 | ECE | Sree Ernakulathappan College of Engineering \& Management, Muppliyam, Mukundapuram, Thrissur | KTU | CE-60, CS-60, EC-60, EE60 | 240 | $\begin{aligned} & 0480-2781897, \\ & 2781898 \end{aligned}$ |
| 24 | EKC | Eranad Knowledge City Technical Campus, Cherukulam, Elankur P.O., Manjeri(via), Malappuram | KTU | CE-60, CS-60, EC-60, ME60 | 240 | $\begin{aligned} & 0483-3013666, \\ & 3013301 \end{aligned}$ |
| 25 | FIT | Federal Institute of Science \& Technology, Angamaly, Ernakulam | KTU | $\begin{aligned} & \text { CE-120, CS-120, EC-120, } \\ & \text { EE-60, EI-60, ME-120 } \end{aligned}$ | 600 | $\begin{aligned} & 0484-2616267, \\ & 2616404 \end{aligned}$ |
| 26 | FOP | Focus Institute of Science and Technology, Poomala, Thrissur | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & \text { 0487-2206888, } \\ & 6551655 \end{aligned}$ |
| 27 | GIT | Gurudeva Institute of Science \& Tech., Vennimala, Payyappady P O, Puthuppally, Kottayam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & 0481-2354620, \\ & 2568913 \end{aligned}$ |
| 28 | GWE | K R Gouri Amma College of Engineering for Women, Cherthala, Alappuzha | KTU | $\begin{aligned} & \text { CE-90, CS-60, EC-90, } \\ & \text { IT-60 } \end{aligned}$ | 300 | $\begin{aligned} & \text { 0478-2564490, } \\ & 2562353 \end{aligned}$ |
| 29 | HCE |  <br> Technology, Panavoor P O, Nedumangadu, Thiruvananthapuram | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 0472-2866666, \\ & 2867000 \end{aligned}$ |
| 30 | HGW | Holy Grace Academy of Engineering, Mala, Kuruvilassery P O, Thrissur | KTU | CE-60, CS-60, EC-60, EE60 | 240 | $\begin{aligned} & \hline 0480-3293889, \\ & 2891900,2897155, \\ & 2897156 \end{aligned}$ |
| 31 | HKC | Holy Kings College of Engineering and Technology, Pampakuda, Moovattupuzha, Ernakulam | KTU | $\begin{aligned} & \text { CE-120, CS-60, EC-60, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 420 | 0485-2274455 |


| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Code | College | University | Courses offered No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | HKE | Hindustan College of Engineering, Arippa, Chozhiyakode P O, Kulathupuzha, Kollam | KTU | CE-60, Cs-60, EC-60, ME-60 | 240 | $\begin{aligned} & 0475-2312588, \\ & 2312084 \end{aligned}$ |
| 33 | ICE | Ilahia College of Engineering \& Technology, Muvattupuzha, Ernakulam | KTU | CE-120, CS-60, EC-120, EE-60, IT-60, ME-120 | 540 | $\begin{aligned} & 0485-2549145, \\ & 6451636 \end{aligned}$ |
| 34 | ICT | Ilahia School of Science \& Technology, Muvattupuzha, Ernakulam | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & \text { 0485-2814603, } \\ & 2814903 \end{aligned}$ |
| 35 | IES | IES College of Engineering, Chittilappilly, Thrissur | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & \text { 0487-2309966, } \\ & 2309967 \end{aligned}$ |
| 36 | IGW | Indira Gandhi Institute of Engineering \& Technology for women, Nellikuzhi P O, Kothamangalam, Ernakulam | KTU | CE-120, CS-60, EC-120, EE-60 | 360 | $\begin{aligned} & 0485-2827740, \\ & 2827454 \end{aligned}$ |
| 37 | ILE | IL M College of Engineering, Perumbavoor, Ernakulam | KTU | AO-60, CE-60, CS-60, EC60, ME-60 | 300 | $\begin{aligned} & 04842597900, \\ & 2651450 \end{aligned}$ |
| 38 | JBT | Jai Bharath College of Management \& Engineering Technology, Perumbavoor, Vengola P O, Ernakulam | KTU | CE-60, CS-60, EC-60, EE60, ME-120 | 360 | $\begin{aligned} & 0484-2655001, \\ & 2655379 \end{aligned}$ |
| 39 | JCE | Jawaharlal College of Engineering \& Technology, Mangalam,Lakkidi, Palakkad | KTU | AO-120, , CE-120, CS-60, EC-120, EE-60, ME-120, | 600 | $\begin{aligned} & 0466-2405070, \\ & 2231550 \end{aligned}$ |
| 40 | JEC | Jyothi Engineering College, Vettikkattiri P.O., Cheruthuruthy, Thrissur - 679531 | KTU | CE-60, CS-120, EC-120, <br> EE-60,ME-120 | 480 | $\begin{aligned} & 04884274198, \\ & 274423 \end{aligned}$ |
| 41 | JIT | John Cox Memorial CSI Institute of Technology, Kannammoola, Thiruvananthapuram | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 0471-2446949, \\ & 3075512 \end{aligned}$ |
| 42 | KIT | Kottayam Institute of Technology \& Science, Pallicathode, Kottayam | KTU | AU-60, CE-60, CS-60, EC-60, EE-60, ME-120 | 420 | 0481-2704700 |
| 43 | KMC | KMCT College of Engineering, Kallanthode, NIT Campus P.O., Kozhikode- 673601 | KTU | AE-60, AU-60, CE-60, CS- <br> 60, EC-120, EE-60, <br> IT-60, ME-120 | 600 | $\begin{aligned} & 0495-2289227, \\ & 2289099 \end{aligned}$ |
| 44 | KME | KMEA Engineering College, Edathala, Aluva, Ernakulam | KTU | CE-120, CS-60, EC-60, <br> EE-60, EI-60, ME-120 | 480 | $\begin{aligned} & 0484-2411003, \\ & 2411004 \end{aligned}$ |
| 45 | KMP | KMP College of Engineering, Cherukunnam, Asamanoor P O, Perumbavoor, Ernakulam | KTU | CE-90, Cs-45, EC-45, EE-45, ME-90 | 315 | 0484-3939400 (30 lines) |
| 46 | KMW | KMCT College of Engineering for Women, Mukkam, Manassery, Kozhikode. | KTU | BM-60, CE-60, CS-60, EC60, IT-60 | 300 | $\begin{aligned} & 0495-2520952, \\ & 2520954 \end{aligned}$ |
| 47 | KVE | KVM College of Engineering \& Information Technology, KVM College Road, Kokothamangalam, Cherthala, Alappuzha 688583 | KTU | CE-60, CS-60, EC-60, EE- <br> 60, ME-60 | 300 | $\begin{aligned} & 04782811080, \\ & 2811707 \end{aligned}$ |
| 48 | LMC | Lourdes Matha College of Science \& Technology, Lourdes Hills, Kuttichal, Thiruvananthapuram - 695574 | KTU | CE-60, CS-120, EC-120, <br> EE-60, ME-120 | 480 | $\begin{aligned} & 0472 \text { 2853550, } \\ & 2853546 \end{aligned}$ |
| 49 | MBC | Mar Baselios Christian College of Engineering \& Technology, Peermade, Idukki | KTU | CE-60, CS-60, EC-120, <br> EE-60, ME-60 | 360 | $\begin{aligned} & 04869-233571, \\ & 233572 \end{aligned}$ |
| 50 | MBI | Mar Baselios Institute of Technology \& Science, Nellimattom P O, Kothamangalam, Ernakulam | KTU | $\begin{aligned} & \text { CE-120, CS-60, EC-60, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 420 | $\begin{aligned} & 0485-2859308, \\ & 2859348 \end{aligned}$ |
| 51 | MBT | Mar Baselious College of Engineering \& Technology, Thiruvananthapuram | KTU | CE-120, CS-120, EC-120, <br> EE-120, ME-120 | 600 | $\begin{aligned} & 04712545868, \\ & 2545869 \end{aligned}$ |
| 52 | MCC | Musaliar College of Engineering, Chirayinkeezhu, Thiruvananthapuram695304 | KTU | CE-60, EC-60, EE-60, ME60 | 240 | $\begin{aligned} & 04702640605, \\ & 2640123 \end{aligned}$ |
| 53 | MCE | Marian Engineering College, Menamkulam, Kazhakuttom , Thiruvananthapuram-695582 | KTU | $\begin{aligned} & \text { CE-120, CS-90, EC-120, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 510 | $\begin{aligned} & 0471 \text { 2707111, } \\ & 2707150 \end{aligned}$ |


| $\begin{aligned} & \text { SI. } \\ & \text { No. } \end{aligned}$ | Code | College | University | Courses offered No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 54 | MCK | Musaliar College of Engineering \& Technology, Kumbazha, Pathanamthitta | KTU | CE-60, Cs-60, EC-60, EE-60, ME-120 | 360 | $\begin{aligned} & 0468-2301702, \\ & 2301703,2621431 \end{aligned}$ |
| 55 | MCT | Mohandas College of Engineering \& Technology, Nedumangad, Thiruvananthapuram | KTU | BT-60, CE-60, CS-90, EC90, EE-60, IT-60, ME-120 | 540 | $\begin{array}{\|l\|} \hline 0472-2813039, \\ 2814578 \end{array}$ |
| 56 | MEA | MEA Engineering College, Perinthalmanna, Malappuram | KTU | CE-120, CS-120, EC-120, <br> EE-60, IT-60, ME-120 | 600 | $\begin{aligned} & 04933-277556, \\ & 277557 \end{aligned}$ |
| 57 | MEC | Malabar College of Engineering \& Tech., Deshamangalam, Pallur P O, Wadakkancherry (Via), Thrissur | KTU | AU-60, CE-60, CS-60, EC60, ME-120, MR-60 | 420 | $\begin{aligned} & 04884-280801, \\ & 280800 \end{aligned}$ |
| 58 | MEE | MES College of Engineering \& Technology, Kunnukara, Ernakulam | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | 0484-2573211 |
| 59 | MEK | MES Institute of Technology \& Management, Chathannoor, Kollam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & 0474-2022761, \\ & 2590700 \end{aligned}$ |
| 60 | MES | MES College of Engineering, Kuttippuram, Malappuram | KTU | AE-60, AR-40, CE-60, CS-120, EC-120, EE-60, IT-60, ME-60 | 580 | $\begin{aligned} & 0494-3051234, \\ & 3051111 \end{aligned}$ |
| 61 | MET | MET's School of Engineering, Mala, Thrissur | KTU | BT-60, CE-60, CS-120, EC-120, EE-60, ME-120 | 540 | $\begin{aligned} & \text { 0480-2897337, } \\ & 2898032 \end{aligned}$ |
| 62 | MGC | M.G. College of Engineering, Thiruvallam, Thiruvananthapuram | KTU | CS-60, EC-60, EE-60 | 180 | $\begin{aligned} & \hline 0471-2383185, \\ & 2383747 \end{aligned}$ |
| 63 | MGP | Saintgits College of Engineering, Pathamultom, Kottayam | KTU | AE-60, CE-120, CS-120, <br> EC-60, EE-60, ME-120 | 540 | $\begin{aligned} & 0481-2436169, \\ & 2436170 \end{aligned}$ |
| 64 | MHP | Ace College of Engineering, Plappattivila, Karinkadamugal, Thiruvallam, Thiruvananthapuram | KTU | AO-60, CE-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 0471-2384437, \\ & 2384447 \end{aligned}$ |
| 65 | MLM | Mangalam College of Engineering, Ettumanoor, Kottayam | KTU | CE-120, CS-120, EC-120, EE-60, IT-60, ME-120 | 600 | $\begin{aligned} & 0481-2537053, \\ & 2533722 \end{aligned}$ |
| 66 | MLT | Malabar Institute of Technology, Anjarakandy, Kannur | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & \text { 0497-2856400, } \\ & 2855005 \end{aligned}$ |
| 67 | MTA | Matha College of Technology, North Paravur, Ernakulam | KTU | AU-60, CE-60, CS-60, EC-60, ME-120 | 360 | $\begin{aligned} & \text { 0484-2672291, } \\ & 2672295 \end{aligned}$ |
| 68 | MUS | Muslim Association College of Engineering, Venjaramoodu, Thiruvananthapuram | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & \text { 0472-2870786, } \\ & 2875274 \end{aligned}$ |
| 69 | MUT | Muthoot Institute of Technology \& Science, Varokoli P.O., Puthencruez, Ernakulam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & 0484-2732111, \\ & 2732100 \end{aligned}$ |
| 70 | MZC | Mount Zion College of Engineering, Kadammanitta, Pathanamthitta | KTU | AE-60, AO-60, CE-60, CS120, EC-60, ME-60 | 420 | $\begin{aligned} & \text { 0468-2216325, } \\ & 2217425 \end{aligned}$ |
| 71 | MZW | Mount Zion College of Engineering for Women, Kozhuvallur, Chengannoor, Alappuzha | KTU | CE-60, CS-60, EC-60, EE-60 | 240 | $\begin{array}{\|l} 0479-2166038, \\ 2369438 \end{array}$ |
| 72 | NCE | Nehru College of Engineering \& Research Centre, Pampady, Thiruvilwamala, Thrissur | KTU | AU-60, CS-120, EC-120, EE-120, ME-120, MR-60 | 600 | $\begin{aligned} & 04884-281670, \\ & 282070 \end{aligned}$ |
| 73 | NIE | Nirmala College of Engineering, Kunnappilly, Chalakkudy, Thrissur | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 0480-2739800, \\ & 2739801 \end{aligned}$ |
| 74 | NML | North Malabar Institute of Technology, Kanhangad, Kasargod | KTU | CE-60, CS-60, EC-60, EE60, ME-60 | 300 | $\begin{aligned} & 04672440024, \\ & 2205114 \end{aligned}$ |
| 75 | PCE | Prime College of Engineering, Erattayal, Kodumbu P O, Palakkad | KTU | CE-60, CS-90, EC-90, EE60, IT-90, ME-60 | 450 | $\begin{aligned} & 0491-2106677, \\ & 2571118 \end{aligned}$ |
| 76 | PKE | Pankajakasthuri College of Engineering \& Technology, Kandala, Thiruvananthapuram | KTU | CE-60, EC-60, EE-60, ME-60 | 240 | $\begin{aligned} & 0471-2297500, \\ & 2297501 \end{aligned}$ |


| $\begin{array}{c}\text { SI. } \\ \text { No }\end{array}$ | Code | College | University | $\begin{array}{c}\text { Courses offered } \\ \text { No. of seats }\end{array}$ | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :--- | :--- | :--- |
| 77 | PNC | $\begin{array}{l}\text { Pinnacle School of Engineering \& } \\ \text { Technology, Areeplachy P.O., Ayanicode, } \\ \text { Karavaloor, Anchal, Kollam }\end{array}$ | KTU | $\begin{array}{l}\text { AO-60, AU-60, CE-60, EC- } \\ 60, \text { ME-60 }\end{array}$ | 300 | $\begin{array}{l}0475-2276600, \\ 2271515\end{array}$ |
| 78 | PRC | $\begin{array}{l}\text { Providence College of Engineering, } \\ \text { Vattamala, Perisseri East, Angadikkal, } \\ \text { Chengannur, Alappuzha }\end{array}$ | KTU | $\begin{array}{l}\text { CE-60, CS-60, EC-60, } \\ \text { EE-60, ME-60 }\end{array}$ | 300 | 04792451083 |$]$| PRS |
| :--- |


| SI. No. | Code | College | University | Courses offered No. of seats | Total Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 102 | TCT | Trinity College of Engineering, Trinity Hill, Poovada, Naruvamoodu,Thiruvananthapuram | KTU | $\begin{aligned} & \text { CE-60, EC-60, EE-60, } \\ & \text { ME-60 } \end{aligned}$ | 240 | 0471-2395060 |
| 103 | TEC | Travancore Engineering College, Oyoor, Ayoor, Kollam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 360 | $\begin{aligned} & \text { 0474-2466334, } \\ & 3240281 \\ & \hline \end{aligned}$ |
| 104 | TJE | Thejus Engineering College, Vellarkkad, Erumapetti P O, Thrissur | KTU | $\begin{aligned} & \text { CE-120, CS-120, EC-120, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 540 | $\begin{aligned} & 04885-269466, \\ & 269431 \end{aligned}$ |
| 105 | TKI | T K M Institute of Technology, Ezhukone, Kollam | KTU | $\begin{aligned} & \text { BM-60, CE-60, CS-60, } \\ & \text { EC-60, EE-60, FT-60, } \\ & \text { ME-60 } \end{aligned}$ | 420 | $\begin{aligned} & 0474-2482833, \\ & 2482083 \end{aligned}$ |
| 106 | TOC | Toc H Institute of Science \& Technology, Arakkunnam, Ernakulam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-120, } \\ & \text { EE-60, FS-60, IT-60, } \\ & \text { ME-120 } \end{aligned}$ | 540 | $\begin{aligned} & 0484-2749600, \\ & 2738129 \end{aligned}$ |
| 107 | UKP | UKF College of Engineering \& Technology, Meenambalam, Puthemkulam P O, Parippally Via, Kollam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & 0474-2577958, \\ & 2577959 \end{aligned}$ |
| 108 | UNT | Universal Engineering College, Vallivattom P O, Konathukunnu, Thrissur | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-120 } \end{aligned}$ | 360 | 0480-2810040 |
| 109 | VAK | Vidya Academy of Science \& Technology, Technical Campus, Malackal P.O., Kilimanoor, Thiruvananthapuram. | KTU | $\begin{aligned} & \text { CE-60, EC-60, EE-60, } \\ & \text { ME-60 } \end{aligned}$ | 240 | $\begin{aligned} & 0470-2649574, \\ & 2649234 \end{aligned}$ |
| 110 | VAS | Vidya Academy of Science \& Technology, Thalakkottukara, Thrissur | KTU | $\begin{aligned} & \text { CE-120, CS-120, EC-120, } \\ & \text { EE-60, ME-120, PE-60 } \end{aligned}$ | 600 | $\begin{aligned} & \text { 04885-287751, } \\ & 287752 \end{aligned}$ |
| 111 | VIT | Vijnan Institute of Science \& Technology, Nellurupara, Piravom, Ernakulam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | 0485-2258520 |
| 112 | VJC | Viswajyothi College of Engineering \& Technology, Vazhakulam, Muvattupuzha, Ernakulam | KTU | $\begin{aligned} & \text { CE-120, CS-120, EC-120, } \\ & \text { EE-120, IT-60, ME-120 } \end{aligned}$ | 660 | $\begin{aligned} & 04852262211, \\ & 2262244 \end{aligned}$ |
| 113 | VKE | Valia Koonambaikulathamma College of Engg.\& Tech., Chavarcode, Parippally P O, Thiruvananthapuram | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60, ME-60 } \end{aligned}$ | 300 | $\begin{aligned} & \text { 0470-2665223, } \\ & 2665222 \end{aligned}$ |
| 114 | VML | VimalJyothi Engineering College, Chemperi P.O., Kannur - 670632 | KTU | AE-60, CE-120, CS-60, EC-120, EE-60, ME-120 | 540 | $\begin{aligned} & 04602212240, \\ & 2213399 \end{aligned}$ |
| 115 | VPE | Sri. Vellappally Natesan College of Engineering, Pallikkal P O, Mavelikkara, Alappuzha | KTU | $\begin{aligned} & \text { CE-120, CS-60, EC-60, } \\ & \text { EE-60, ME-120, MP-60 } \end{aligned}$ | 480 | $\begin{aligned} & \text { 0479-2331696, } \\ & 2334393 \end{aligned}$ |
| 116 | VVT | Veda Vyasa Institute of Technology, Ponnempadam, Malappuram | KTU | AE-60, CE-120, CS-60, EC-60, EE-60, ME-120 | 480 | $\begin{aligned} & 0483-2832157, \\ & 2302961 \end{aligned}$ |
| 117 | YCE | Younus College of Engineering \& Technology, Vadakkevila, Kollam | KTU | $\begin{aligned} & \text { CE-120, CS-60, EC-120, } \\ & \text { EE-60, IT-60, ME-120 } \end{aligned}$ | 540 | $\begin{aligned} & 0474-2724305, \\ & 2723292 \end{aligned}$ |
| 118 | YCK | Younus Institute of Technology, Kannanalloor, Nedumpana P O, Kollam | KTU | $\begin{aligned} & \text { CE-60, EC-60, EE-60, } \\ & \text { ME-60 } \end{aligned}$ | 240 | $\begin{aligned} & 0474-2561492 \text {, } \\ & 2561493 \end{aligned}$ |
| 119 | YCW | Younus College of Engineering, Thalachira P O, Kottarakkara, Kollam | KTU | $\begin{aligned} & \text { CE-60, CS-60, EC-60, } \\ & \text { EE-60 } \end{aligned}$ | 240 | $\begin{aligned} & 0474-2408860, \\ & 2408861 \end{aligned}$ |
| 120 | ALR | Alsalama Institute of Architecture, Malaparamba, Perinthalmanna, Malappuram | Calicut | AR - 40 | 40 | $\begin{aligned} & \text { 0493-3315200, } \\ & 0493-3393357 \end{aligned}$ |
| 121 | ASR | Asian School of Architecture and Design Innovations, Vyttila, Kochi | MG | AR-40 | 40 | 0484-2389940 |
| 122 | AVR | Avani Institute of Design, Kalipoika, Puthiyara P O, Kozhikode | Calicut | AR-40 | 40 | 0495-3100500 |
| 123 | DCR | DC School of Architecture and Design, Pullikanam, Vagamon, Idukki | MG | AR-40 | 40 | 0486-9202110 |
| 124 | DGR | Devaki Amma's Guruvayurappan College of Architecture, Chelambra, Pulliparamba P O, Malappuram | Calicut | AR - 40 | 40 | $\begin{aligned} & 0483-2891330, \\ & 0483-2891623 \end{aligned}$ |
| 125 | EKR | Eranad Knowledge City College of Architecture, Cherukulam, Manjeri, Malappuram. | Calicut | AR - 40 | 40 | $\begin{aligned} & \text { 0483-3013666, } \\ & 0483-3013607 \end{aligned}$ |
| 126 | GIR | Global Institute of Architecture, Peradikunnu, Nakaripuram, Pathiripala, Palakkad. | Calicut | AR - 40 | 40 | 0491-3243366 |
| 127 | HCA | Holy Crescent College of Architecture, South Vazhakulam, Aluva, Ernakulam | MG | AR-40 | 40 | 0484-2678899 |


| SI. <br> No. | Code | College | University | Courses offered <br> No. of seats | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :--- | :---: | :---: |
| 128 | IER | IES College of Architecture, Chittilappilli, <br> Thrissur | Calicut | AR-40 | 40 | $0487-2309708$, <br> 2309966 |
| 129 | KMR | KMEA College of Architecture, <br> Kuzhivelipadi, Edathala, Aluva, Ernakulam | MG | AR-80 | 80 | $0484-2411003$, <br> 2411004 |
| 130 | KTR | KMCT College of Architecture, Kalanthode, <br> Poolakode, Kozhikkode. | Calicut | AR-40 | 40 | $0495-2291645$ |
| 131 | MCR | Mariyan College of Architecture \& Planning, <br> Kazhakuttom, Thiruvananthapuram. | CUSAT | AR-40 | 40 | $0471-2707111$, <br> $0471-2706157$ |
| 132 | MER | MES College of Architecture, <br> Nedumalakkunnu, Kizhakkumuri P.O., <br> Kakkodi, Kozhikkode. | Calicut | AR-40 | 40 | $0495-2762080$, <br> 2369321 |
| 133 | MKR | School of Architecture, Mookambika <br> Technical Campus, Etappilly, Mannathur, <br> Muvattupuzha, Ernakulam | MG | AR-40 | 40 | $0485-2876300$ |
| 134 | MLR | Mangalam School of Architecture, <br> Perumbaikad, Kottayam. | MG | AR-40 | 40 | $0481-2311964$ |
| 135 | MTR | KMCT College of Architecture, Manassery, <br> Kozhikkode. | Calicut | AR-40 | 40 | $0474-6065555$ |

Notes: (i) The list is not final. The final list of institutions/Courses/sanctioned strength will be published before the Centralised Allotment Process 2016.
(ii) Allotment to all Colleges/Courses will be subject to approval of Central Regulatory Bodies/Government of India/Kerala and Affiliation of the concerned University.
(iii) Allotments from the State Rank List to Self-financing Colleges will be subject to Clauses 1.7 and 2.1.1

ANNEXURE - II (1) (b)
(See Clauses 1.3 .1 \& 1.3.2)
DESCRIPTION OF COURSE CODES

| Sl. <br> No. | Branch <br> Code | Name of Branch | Sl. <br> No. | Branch <br> Code | Name of Branch |
| :---: | :---: | :--- | :---: | :---: | :--- |
| 1 | AE | Applied Electronics\& Instrumentation | 16 | FS | Safety \& Fire Engineering |
| 2 | AG | B.Tech. (Agricultural Engineering) | 17 | FT | Food Technology |
| 3 | AO | Aeronautical Engineering | 18 | IC | Instrumentation \& Control Engineering |
| 4 | AR | Architecture | 19 | IE | Industrial Engineering |
| 5 | AU | Automobile Engineering | 20 | IT | Information Technology |
| 6 | BM | Bio Medical Engineering | 21 | MA | Mechanical (Automobile) |
| 7 | BT | Bio-Technology | 22 | ME | Mechanical Engineering |
| 8 | CE | Civil Engineering | 23 | MP | Mechanical (Production Engineering) |
| 9 | CH | Chemical Engineering | 24 | MR | Mechatronics Engineering |
| 10 | CS | Computer Science \& Engineering | 25 | MT | Metallurgy |
| 11 | DS | Dairy Science \& Technology | 26 | PO | Polymer Engineering |
| 12 | EC | Electronics \& Communication | 27 | PE | Production Engineering |
| 13 | EE | Electrical \& Electronics | 28 | PT | Printing Technology |
| 14 | EI | Electronics \& Instrumentation | 29 | SB | Naval Architecture \& Ship Building |
| 15 | FE | Food Engineering |  |  |  |

> ANNEXURE - II (2) (a)

ENGINEERING COURSES
DISTRIBUTION OF SEATS UNDER SPECIAL RESERVATION CATEGORIES
[See clauses 4.1.9, 4.1.10, 5.2 and 5.2 (vii)]
[Details of college codes are given in Annexure - II (1)(a) Details of category codes are available at the end of this Annexure]

| College | Course | SPECIAL RESERVATION CATEGORIES (GOVT / AIDED) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GI | RQ | CC | SP | XS | SD | DK | RP | JW | SG | TOTAL |
| CDT | DS |  |  |  | 1 |  |  |  |  |  |  | 1 |
| IDK | CS | 1 |  | 1 |  |  |  |  |  |  |  | 2 |
|  | EC | 2 |  | 1 | 1 |  |  |  |  |  |  | 4 |
|  | EE | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | IT | 2 |  | 1 | 2 | 1 |  |  |  |  |  | 6 |
| KCT | AG |  |  |  | 1 |  | 1 |  |  |  |  | 2 |
| KKE | AE |  |  | 1 |  |  | 1 |  |  |  |  | 2 |
|  | CE | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | CH |  |  |  |  |  | 1 |  |  |  |  | 1 |
|  | EC | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | ME | 2 |  |  |  |  |  |  |  |  |  | 2 |
| KNR | CE | 2 | 1 |  |  |  |  |  |  |  |  | 3 |
|  | CS | 2 |  | 1 | 1 |  |  |  |  |  |  | 4 |
|  | EC | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | EE | 2 |  | 1 |  |  | 1 |  |  |  |  | 4 |
|  | ME |  |  |  |  |  | 1 |  |  |  |  | 1 |
| KTE | CE | 2 |  | 1 |  |  |  |  |  |  | 1 | 4 |
|  | CS | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | EC | 2 |  | 1 |  |  | 1 |  |  |  |  | 4 |
|  | EE | 3 |  |  | 1 |  |  |  |  |  |  | 4 |
|  | ME |  |  |  |  |  |  | 1 |  |  |  | 1 |
| MAC | CE | 4 |  |  |  |  |  |  |  |  |  | 4 |
|  | CS | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | EC | 2 |  | 1 | 1 |  |  |  |  |  |  | 4 |
|  | EE | 4 | 1 |  |  | 1 |  | 1 |  |  |  | 7 |
|  | ME | 2 |  | 1 |  | 1 | 1 |  |  | 1 |  | 6 |
| NSS | CE | 4 |  |  |  |  |  |  |  |  |  | 4 |
|  | CS | 2 |  |  |  | 1 |  |  |  |  | 1 | 4 |
|  | EC | 1 |  | 1 | 1 |  |  |  |  |  |  | 3 |
|  | EE | 2 |  |  | 1 |  |  |  |  |  |  | 3 |
|  | IC | 5 |  | 1 |  |  |  |  |  |  |  | 6 |
|  | ME | 3 |  |  |  | 1 | 1 |  |  |  |  | 5 |
| PKD | CS | 1 |  |  |  |  | 1 |  |  |  |  | 2 |
|  | EC | 2 |  | 1 | 1 |  |  |  |  |  |  | 4 |
|  | IT | 2 |  | 2 | 1 |  |  | 1 |  |  |  | 6 |
|  | ME | 2 |  |  |  |  |  |  |  |  |  | 2 |
| TCR | CE | 4 |  |  |  | 1 | 1 | 1 |  |  |  | 7 |
|  | CH | 4 |  | 1 |  |  |  |  |  |  |  | 5 |
|  | CS | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | EC | 1 |  |  | 1 |  |  |  |  |  |  | 2 |
|  | EE | 4 |  |  |  |  |  |  |  |  |  | 4 |
|  | ME |  | 1 |  | 1 |  |  |  |  |  |  | 2 |
|  | PE | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
| TKM | AR | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | CE | 6 |  |  |  |  | 1 |  |  |  |  | 7 |
|  | CH | 2 |  |  |  |  |  |  | 1 |  |  | 3 |
|  | CS | 2 |  | 1 |  |  |  |  | 1 |  |  | 4 |
|  | EC | 4 |  |  | 1 |  |  | 1 |  |  |  | 6 |
|  | EE | 4 | 1 |  |  |  | 1 |  | 1 |  |  | 7 |
|  | ME | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | MP |  |  |  | 1 |  |  |  |  |  |  | 1 |


| College | Course | SPECIAL RESERVATION CATEGORIES (GOVT / AIDED) |  |  |  |  |  |  |  |  | (Continued......) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GI | RQ | CC | SP | XS | SD | DK | RP | JW | SG | TOTAL |
| TRV | CE | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | EC | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | EE | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | IT | 2 |  | 1 | 1 |  | 1 |  |  |  |  | 5 |
|  | ME | 1 |  |  |  |  |  |  |  |  |  | 1 |
| TVE | AE | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | AR | 3 |  | 1 |  |  | 1 |  |  |  |  | 5 |
|  | CE | 4 | 1 | 1 | 1 | 1 | 1 |  | 1 |  |  | 10 |
|  | CS | 2 |  | 1 |  |  |  |  |  |  |  | 3 |
|  | EC | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | EE | 2 |  |  | 1 | 1 | 1 |  |  |  |  | 5 |
|  | IE | 1 |  | 1 |  |  |  |  |  |  |  | 2 |
|  | ME | 6 | 1 |  |  |  |  |  | 1 |  |  | 8 |
| WYD | CS | 2 |  |  | 1 |  |  | 1 |  |  |  | 4 |
|  | EC | 4 |  | 1 |  |  | 1 |  |  |  |  | 6 |
|  | EE | 2 |  |  |  |  |  |  |  |  |  | 2 |
|  | ME | 2 |  |  |  |  |  |  |  |  |  | 2 |
| College | Course | SPECIAL RESERVATION CATEGORIES (GOVT. CONTROLLED SELF FINANCING COLLEGES) |  |  |  |  |  |  |  |  |  |  |
|  |  | GI | RQ | CC | SP | XS | SD | DK | RP | JW | SG | TOTAL |
| ADR | ME | 3 |  |  |  |  |  |  |  |  |  | 3 |
|  | EC | 4 |  |  |  |  |  |  |  |  |  | 4 |
| CEA | CS |  |  |  |  |  |  | 1 |  |  |  | 1 |
| CHN | EE | 2 |  |  |  |  |  |  |  |  |  | 2 |
| KSD | CE | 1 |  |  |  |  |  |  |  |  |  | 1 |
|  | ME |  |  |  |  | 1 |  |  |  |  |  | 1 |
| MDL | CS | 4 |  |  |  |  |  |  |  |  |  | 4 |
|  | EE | 1 |  |  |  |  |  |  |  |  |  | 1 |
| PRP | IT | 2 |  |  |  |  |  |  |  |  |  | 2 |
| SCT | EC | 3 |  |  |  |  |  |  |  |  |  | 3 |
| TOTAL |  | 168 | 6 | 30 | 20 | 9 | 17 | 7 | 5 | 1 | 2 | 265 |

ANNEXURE - II (2) (b)
DISTRIBUTION OF SEATS UNDER SPECIAL RESERVATION CATEGORIES IN PRIVATE SELF FINANCING ENGINEERING/ ARCHITECTURE COLLEGES.
[See Clause 1.7 \& the Note below clause 5.2.4]
[Details of college codes are given in Annexure - II (1) (a).
Details of category codes are available at the end of this Annexure]

| SINo | College | Course | SPECIAL RESERVATION CATEGORIES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SI.No | Code | Course | SP | CC | XS | DK | SD | RP |
| 1 | AAE | CE | 1 |  |  |  |  |  |
| 2 | AAP | EC |  | 1 |  |  |  |  |
| 3 | ACE | CS | 1 |  |  |  |  |  |
| 4 | AIK | EE |  | 1 |  |  |  |  |
| 5 | AJC | EC | 1 |  |  |  |  |  |
| 6 | AME | CE |  | 1 |  |  |  |  |
| 7 | ANE | CS | 1 |  |  |  |  |  |
| 8 | ASI | EC |  | 1 |  |  |  |  |
| 9 | ATP | EE | 1 |  |  |  |  |  |
| 10 | AWH | CS |  | 1 |  |  |  |  |
| 11 | AXE | CE | 1 |  |  |  |  |  |
| 12 | BJK | EC |  | 1 |  |  |  |  |
| 13 | BMC | CS | 1 |  |  |  |  |  |
| 14 | BTE | EE |  | 1 |  |  |  |  |
| 15 | CCE | CE | 1 |  |  |  |  |  |
| 16 | CCV | ME |  | 1 |  |  |  |  |


| SI.No | College Code | Course | SPECIAL RESERVATION CATEGORIES |  |  |  | (Continued......) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SP | CC | XS | DK | SD | RP |
| 17 | CEN | CE | 1 |  |  |  |  |  |
| 18 | CIM | CS |  | 1 |  |  |  |  |
| 19 | CKC | CS | 1 |  |  |  |  |  |
| 20 | CMA | EE |  | 1 |  |  |  |  |
| 21 | CML | EE | 1 |  |  |  |  |  |
| 22 | DMC | CE |  | 1 |  |  |  |  |
| 23 | ECE | CS |  |  | 1 |  |  |  |
| 24 | EKC | EC |  |  |  | 1 |  |  |
| 25 | FIT | EE |  |  |  |  | 1 |  |
| 26 | FOP | CS |  |  |  |  |  | 1 |
| 27 | GIT | ME |  |  | 1 |  |  |  |
| 28 | GWE | CE |  |  |  | 1 |  |  |
| 29 | HCE | CS |  |  |  |  | 1 |  |
| 30 | HGW | EC |  |  |  |  |  | 1 |
| 31 | HKC | EE |  |  | 1 |  |  |  |
| 32 | HKE | CE |  |  |  | 1 |  |  |
| 33 | ICE | CS |  |  |  |  | 1 |  |
| 34 | ICT | EC |  |  |  |  |  | 1 |
| 35 | IES | EC |  |  | 1 |  |  |  |
| 36 | IGW | CE |  |  |  | 1 |  |  |
| 37 | ILE | CE |  |  |  |  | 1 |  |
| 38 | JBT | EC |  |  |  |  |  | 1 |
| 39 | JCE | EC |  |  | 1 |  |  |  |
| 40 | JEC | ME |  |  |  | 1 |  |  |
| 41 | JIT | CS |  |  |  |  | 1 |  |
| 42 | KIT | CE |  |  |  |  |  | 1 |
| 43 | KMC | CE |  |  | 1 |  |  |  |
| 44 | KME | EE |  |  |  | 1 |  |  |
| 45 | KMP | ME |  |  |  |  | 1 |  |
| 46 | KMW | BM |  |  |  |  |  | 1 |
| 47 | KVE | CS |  |  | 1 |  |  |  |
| 48 | LMC | EC |  |  |  | 1 |  |  |
| 49 | MBC | EE |  |  |  |  | 1 |  |
| 50 | MBI | ME |  |  |  |  |  | 1 |
| 51 | MBT | CE |  |  | 1 |  |  |  |
| 52 | MCC | EC |  |  |  | 1 |  |  |
| 53 | MCE | CS |  |  |  |  | 1 |  |
| 54 | MCK | EE |  |  |  |  |  | 1 |
| 55 | MCT | EE |  |  | 1 |  |  |  |
| 56 | MEA | ME |  |  |  | 1 |  |  |
| 57 | MEC | AU |  |  |  |  | 1 |  |
| 58 | MEE | CS |  |  |  |  |  | 1 |
| 59 | MEK | EC |  |  | 1 |  |  |  |
| 60 | MES | CS |  |  |  | 1 |  |  |
| 61 | MET | EE |  |  |  |  | 1 |  |
| 62 | MGC | CS |  |  |  |  |  | 1 |
| 63 | MGP | CE |  |  | 1 |  |  |  |


| SI.No | College Code | Course | SPECIAL RESERVATION CATEGORIES |  |  |  | (Continued......) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SP | CC | XS | DK | SD | RP |
| 64 | MHP | EC |  |  |  | 1 |  |  |
| 65 | MLM | CS |  |  |  |  | 1 |  |
| 66 | MLT | EC |  |  |  |  |  | 1 |
| 67 | MTA | EC |  |  | 1 |  |  |  |
| 68 | MUS | ME |  |  |  | 1 |  |  |
| 69 | MUT | CE |  |  |  |  | 1 |  |
| 70 | MZC | AO |  |  |  |  |  | 1 |
| 71 | MZW | EC |  |  | 1 |  |  |  |
| 72 | NCE | EE |  |  |  | 1 |  |  |
| 73 | NIE | ME |  |  |  |  | 1 |  |
| 74 | NML | CE |  |  |  |  |  | 1 |
| 75 | PCE | CS |  |  | 1 |  |  |  |
| 76 | PKE | EE |  |  |  | 1 |  |  |
| 77 | PNC | CE |  |  |  |  | 1 |  |
| 78 | PRC | ME |  |  |  |  |  | 1 |
| 79 | PRS | CS |  |  | 1 |  |  |  |
| 80 | RCE | CS |  |  |  | 1 |  |  |
| 81 | RET | EC |  |  |  |  | 1 |  |
| 82 | RIE | EE |  |  |  |  |  | 1 |
| 83 | SBC | ME |  |  | 1 |  |  |  |
| 84 | SBW | CE |  |  |  | 1 |  |  |
| 85 | SCM | CE |  |  |  |  | 1 |  |
| 86 | SGP | CS |  |  |  |  |  | 1 |
| 87 | SGT | ME |  |  | 1 |  |  |  |
| 88 | SHM | EE |  |  |  | 1 |  |  |
| 89 | SHR | EC |  |  |  |  | 1 |  |
| 90 | SIT | ME |  |  |  |  |  | 1 |
| 91 | SJC | AE |  |  | 1 |  |  |  |
| 92 | SNC | CS |  |  |  | 1 |  |  |
| 93 | SNG | EC |  |  |  |  | 1 |  |
| 94 | SNM | EE |  |  |  |  |  | 1 |
| 95 | SNP | ME |  |  | 1 |  |  |  |
| 96 | SNT | CE |  |  |  | 1 |  |  |
| 97 | SPT | CS |  |  |  |  | 1 |  |
| 98 | STC | EC |  |  |  |  |  | 1 |
| 99 | STI | EE |  |  | 1 |  |  |  |
| 100 | STM | ME |  |  |  | 1 |  |  |
| 101 | TCE | EE |  |  |  |  | 1 |  |
| 102 | TCT | EC |  |  |  |  |  | 1 |
| 103 | TEC | CS |  |  | 1 |  |  |  |
| 104 | TJE | EC |  |  |  | 1 |  |  |
| 105 | TKI | EC |  |  |  |  | 1 |  |
| 106 | TOC | FS |  |  |  |  |  | 1 |
| 107 | UKP | CE |  |  | 1 |  |  |  |
| 108 | UNT | EC |  |  |  | 1 |  |  |
| 109 | VAK | EE |  |  |  |  | 1 |  |
| 110 | VAS | EE |  |  |  |  |  | 1 |


| SI.No | College Code | Course | SPECIAL RESERVATION CATEGORIES    <br> SP CC XS DK |  |  |  | (Continued......) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | SD | RP |
| 111 | VIT | ME |  |  | 1 |  |  |  |
| 112 | VJC | ME |  |  |  | 1 |  |  |
| 113 | VKE | CE |  |  |  |  | 1 |  |
| 114 | VML | CE |  |  |  |  |  | 1 |
| 115 | VPE | EC |  |  | 1 |  |  |  |
| 116 | VVT | EC |  |  |  | 1 |  |  |
| 117 | YCE | IT |  |  |  |  | 1 |  |
| 118 | YCK | CE |  |  |  |  |  | 1 |
| 119 | YCW | CS |  |  | 1 |  |  |  |
| 120 | ALR | AR |  |  |  | 1 |  |  |
| 121 | ASR | AR |  |  |  |  | 1 |  |
| 122 | AVR | AR |  |  |  |  |  | 1 |
| 123 | DCR | AR |  |  | 1 |  |  |  |
| 124 | DGR | AR |  |  |  | 1 |  |  |
| 125 | EKR | AR |  |  |  |  | 1 |  |
| 126 | GIR | AR |  |  |  |  |  | 1 |
| 127 | HCA | AR |  |  | 1 |  |  |  |
| 128 | IER | AR |  |  |  | 1 |  |  |
| 129 | KMR | AR |  |  |  |  | 1 |  |
| 130 | KTR | AR |  |  |  |  |  | 1 |
| 131 | MCR | AR |  |  | 1 |  |  |  |
| 132 | MER | AR |  |  |  | 1 |  |  |
| 133 | MKR | AR |  |  |  |  | 1 |  |
| 134 | MLR | AR |  |  |  |  |  | 1 |
| 135 | MTR | AR |  |  | 1 |  |  |  |
| 136 | NMR | AR |  |  |  | 1 |  |  |
| 137 | NVR | AR |  |  |  |  | 1 |  |
| 138 | SNR | AR |  |  |  |  |  | 1 |
| 139 | TER | AR |  |  | 1 |  |  |  |
| 140 | TJR | AR |  |  |  | 1 |  |  |
| 141 | VVR | AR |  |  |  |  | 1 |  |
| Total |  |  | 11 | 11 | 30 | 30 | 30 | 29 |

CATEGORY CODES

| Code | Category | Code | Category |
| :---: | :--- | :---: | :--- |
| GI | Government of India nominees | SD | Serving Defence personnel |
| RQ | Reciprocal Quota | DK | Defence killed/missing/disabled |
| CC | NCC Quota | RP | CRPF, etc |
| SP | Sports Quota | JW | Jews |
| XS | Children of Ex-service men | SG | Scouts and Guides |

```
    ANNEXURE - III (1)
COLLEGES UNDER MEDICAL STREAM
            (MBBS, BDS)
    (See Clauses 1.7, 2, 2.5.2)
```


## 1. Government Medical Colleges (MBBS Code: MM)

| SI. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :--- | :--- | :---: | :---: | :---: |
| 1 | ALP | T D Medical College, Alappuzha | KUHS | 150 | $0477-2282015,2282126$ |
| 2 | CMC | Govt. Medical College, Ernakulam | KUHS | 100 | $0484-2411460,2411461$ |
| 3 | IDM | Govt. Medical College, Painavu, Idukki | KUHS | 50 | $0486-2233075,2233076$ |
| 4 | KKM | Govt. Medical College, Kozhikode | KUHS | 250 | $0495-2355331,2350201$ |
| 5 | KTM | Govt. Medical College, Kottayam | KUHS | 150 | $0481-2597279,2597284$ |
| 6 | MLP | Govt. Medical College, Manjeri, Malappuram | KUHS | 100 | $0483-2766056$ |
| 7 | PKM | Govt. Medical College, Palakkad | KUHS | 100 | $0491-2000544$ |
| 8 | TCM | Govt. Medical College, Thrissur | KUHS | 150 | $0487-2201455,2200310$ |
| 9 | TVM | Govt. Medical College, Thiruvananthapuram | KUHS | 200 | $0471-2528386,2528383$ |

Note: Seats available for mandatory reservation: See Clause 4.1.5

## 2. Government Controlled Self financing Medical Colleges (MBBS Code : MM)

| SI. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | KNM | Academy of Medical Sciences, Pariyaram, Kannur | KUHS | 100 | $0497-2808111,2808112$ |

3. Private Self-financing Medical Colleges (MBBS Code : MM)

| SI. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :--- | :--- | :--- | :--- |
| 1. | AAM | Al Azhar Medical College \& Super Speciality Hospital, <br> Ezhalloor, Thodupuzha, Idukki | KUHS | 150 | $0486-2249200$ |
| 2. | AMC | Amala Institute of Medical Sciences, Amala Nagar, <br> Thrissur | KUHS | 100 | $0487-2304000,2304116$ |
| 3. | DMM | DM Wayanad Institute of Medical Sciences, Kalpetta, <br> Meppadi P.O., Wayanad. | KUHS | 150 | $04936-287000$ |
| 4. | GMC | Sree Gokulam Medical College \& Research <br> Foundation, Venjaramoodu, Thiruvananthapuram | KUHS | 150 | $0472-3041000,3041004$ |
| 5. | JMC | Jubilee Mission Medical College \& Research Institute, <br> Bisho Alappat Road,Thrissur | KUHS | 100 | $0487-2421885,2432200$ |
| 6. | KDM | P K Das Institute of Medical Sciences, <br> Vaniyamkulam, Ottapalam, Palakkad | KUHS | 150 | $0466-2344500$ |
| 7. | MMC | Malankara Orthodox Syrian Church Medical College, <br> Kolenchery, Ernakulam | KUHS | 100 | $0484-2764062,3055530$ |
| 8. | MMH | Malabar Medical College Hospital \& Research <br> Centre, Modakkallur P O, Atholi Via, Kozhikode | KUHS | 150 | $04966-2701666,2701667$, |
| 9. | MZM | Mount Zion Medical College, Chayalode, Adoor, <br> Pathanamthitta | KUHS | 100 | $0473-4241260,4241230$ |


| SI. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 10. | PMC | Pushpagiri Institute of Medical Science \& Research <br> Centre, Thiruvalla | KUHS | 100 | $0469-2733761,2600019$ |
| 11. | SIM | Sree Narayana Institute of Medical Sciences, <br> Chalakka, North Kuthiyathode P O, Ernakulam | KUHS | 100 | $0484-253024,2573023$ |
| 12. | SMC | Dr. Somervell Memorial CSI Medical College, <br> Karakonam, Thiruvananthapuram | KUHS | 100 | $0471-2250233,2250506$ |
| 13. | SUC | SUT Academy of Medical Sciences, Vattappara, <br> Thiruvananthapuram | KUHS | 100 | $0472-2587575,2587676$ |

4. Government Dental Colleges (BDS Code : MD)

| Sl. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :--- |
| 1 | ALD | Govt. Dental College, Alappuzha | KUHS | 50 | $0477-2280501,2280502$ |
| 2 | KKD | Govt. Dental College, Kozhikode | KUHS | 50 | $0495-2356781$ |
| 3 | KTD | Govt. Dental College, Kottayam | KUHS | 40 | $0481-2594046$ |
| 4 | TCD | Govt. Dental College, Thrissur | KUHS | 50 | $0487-2206200$ |
| 5 | TVD | Govt. Dental College, Thiruvananthapuram | KUHS | 50 | $0471-2444092$ |

Note: Seats available for mandatory reservation: See Clause 4.1.5
5. Government Controlled Self financing Dental College (BDS Code : MD)

| SI. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | KND | Pariyaram Dental College, Pariyaram, Kannur | KUHS | 60 | $0497-2808127,2808111$ |

6. Private Self-financing Dental Colleges (BDS Code : MD)

| SI. No. | Code | College | University | Total Seats | Phone No. |
| :---: | :---: | :--- | :--- | :--- | :--- |
| 1 | AAD | Al-Azhar Dental College, Perumpillichira P O, <br> Thodupuzha, Idukki | KUHS | 50 | 04862 - 224366 |
| 2 | ADC | Annoor Dental College, Puthuppady P O, <br> Muvattupuzha, Ernakulam | KUHS | 50 | $0485-2815217,2815817$ |
| 3 | AID | Sree Anjaneya Institute of Dental Sciences, Modakkallur, <br> Atholi, Kozhikode | KUHS | 100 | $0496-2701666,2701667$ |
| 4 | AZD | Azeezia College of Dental Sciences \& Research, <br> Meeyyannoor, Kollam | KUHS | 100 | 0474 - 3069350, 3069353 |
| 5 | CDC |  <br> Research Centre, Poinachi, Kasaragod | KUHS | 100 | 0467 - 2237200 |
| 6 | EID | Educare Institute of Dental Science, Kiliyamannil <br> Campus, Chattiparamba, Malappuram | KUHS | 100 | 0483 - 2708353, 2705602 |
| 7 | IGD | Indira Gandhi Institute of Dental Sciences, <br> Nellikuzhy P O, Kothamangalam, Ernakulam | KUHS | 100 | $0485-6451630,6451631$ |
| 8 | KAD | Kannur Dental College, Anjarakandy, Kannur | KUHS | 100 | $0497-2855010,2856400$ |
| 9 | MBD | Mar Baselios Dental College, Kothamangalam, <br> Ernakulam | KUHS | 60 | $0485-2828745,2823986$ |
| 10 | MED | MES Dental College, Perinthalmanna, Malappuram | KUHS | 100 | $0493-3258053$ |
| 11 | MLD | Malabar Dental College and Research Centre, <br> Chekanoor Road, Mudur P O, Edappal, Malappuram | KUHS | 100 | $0494-2697020,2697021$ |
| 12 | NID | Noorul Islam College of Dental Science, Aralummoodu, <br> Neyyattinkara, Thiruvananthapuram | KUHS | 50 | 0471 - 2226515, 2226513 |
| 13 | PMD | Pushpagiri College of Dental Science, Thiruvalla | KUHS | 50 | $0469-2645210,2645282$ |
| 14 | PSD | PSM College of Dental Science and Research, <br> Akkikavu, Thrissur | KUHS | 100 | $04885-289991$, <br> 99951888001 |
| 15 | RDC | Royal Dental College, Iron Hills, Chalissery P O, <br> Palakkad | KUHS | 60 | $0466-2255131,2255132$ |
| 16 | SGD | St. Gregorios Dental College, Chelad P O, <br> Kothamangalam, Ernakulam | KUHS | 40 | $0485-2572529,2572530$ |
| 17 | SVD | Sri Sankara Dental College, Akathumuri, Varkala, <br> Thiruvananthapuram | KUHS | 100 | $0470-2795016,3206245$ |

The list is not final. The final list of courses/institutions will be published before the Centralised Allotment Process 2016.
Note: Allotment to all Colleges/Courses will be subject to approval of Central Regulatory Bodies / Government of India / Government of Kerala and Affiliation of the concerned University.

* Allotments from the State Rank List to Self- financing Colleges will be subject to Clauses 1.7 and 2.2

DESCRIPTION OF COURSE CODES

| Sl. No. | Course Code | Name of Course | Sl. No. | Course Code | Name of Course |
| :---: | :---: | :--- | :---: | :---: | :--- |
| 1 | AA | BSc. ( Hons. ) Agriculture | 6 | BS | B.S.M.S |
| 2 | AF | BFSc. | 7 | BU | B.U.M.S |
| 3 | AV | BVSc. \& AH | 8 | FR | BSC. (Hons. ) Forestry |
| 4 | BA | B.A.M.S | 9 | MD | B.D.S |
| 5 | BH | B.H.M.S | 10 | MM | M.B.B.S |

ANNEXURE - III (2)
MEDICAL COURSES
SEATS UNDER ALL INDIA QUOTA, NOMINEES, SPECIAL RESERVATION CATEGORIES*
For MBBS \& BDS Courses
[See Clauses 1.7, 2.1.1, 4.1.11(a), 4.1.11(b), 5.2]

| Quota | Govt. Medical Colleges (MBBS) |  |  |  |  |  |  |  |  |  | Govt. Dental Colleges (BDS) |  |  |  |  |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TVM | ALP | KTM | TCM | KKM | MLP | CMC | IDM | PKM | Total | TVD | KTD | KKD | ALD | TCD | Total |  |
| Ex-Servicemen Quota (XS) | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  | 6 |  |  |  | 1 |  | 1 | 7 |
| Defence Killed in Action (DK) | 1 |  | 1 | 1 |  | 1 | 1 |  |  | 5 |  | 1 |  |  |  | 1 | 6 |
| Serving Defence Quota (SD) |  | 1 |  |  | 1 |  |  |  |  | 2 |  |  | 1 |  |  | 1 | 3 |
| Jew Community (JW) |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  | 1 |  | 1 | 2 |
| Holders of Degree/Diploma in Ayurveda (DA) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  | 7 |  |  |  |  |  |  | 7 |
| Holders of Deg/Diploma in Homeopathy (DH) | 1 |  | 1 | 1 | 1 |  |  |  |  | 4 |  |  |  |  |  |  | 4 |
| Nurses Quota (NQ) | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| Sports Quota (SP) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | 8 | 1 |  |  |  |  | 1 | 9 |
| NCC Quota (CC) |  |  | 1 |  | 1 |  |  | 1 |  | 3 | 1 |  |  | 1 |  | 2 | 5 |
| All India Quota | 30 | 23 | 23 | 23 | 37 | 15 | 15 | 8 | 15 | 189 | 8 | 6 | 7 | 8 | 8 | 37 | 226 |
| Government of India Nominees | 5 | 5 | 4 | 5 | 5 |  |  |  |  | 24 | 1 |  | 1 |  |  | 2 | 26 |
| Kerala origin settled in Union Territory of Andaman \& Nicobar Islands |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| Kerala origin settled in Lakshadeep |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| Jammu \& Kashmir Nominees |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| TOTAL | 41 | 32 | 33 | 34 | 50 | 19 | 19 | 10 | 15 | 253 | 11 | 7 | 9 | 11 | 8 | 46 | 299 |

[^1]Note:- The seats reserved under Special Reservation Categories and Nominees will be fixed in the Colleges concerned except the seat reserved for Jammu \& Kashmir Nominee.

## ANNEXURE - III (3) <br> CATEGORIES OF CANDIDATE(S) ENTITLED TO CENTRAL GOVERNMENT RESERVED SEATS FOR ADMISSION TO MBBS / BDS COURSES AND THE AUTHORITIES CONCERNED <br> (See Clause 5.1)

| SI. No. | Category | Authority concerned |  |
| :---: | :--- | :--- | :--- |
| 1 | Students belonging to States / Union <br> Territories with no Medical / Dental College. | Health Secretary, <br> State/Union Territory Government. | Higher Education Secretary, <br> For students from Jammu \& Kashmir |
| 2 | Wards of Defence Personnel | Liaison Officer, Kendriya Sainik Board, Ministry of Defence, <br> West block - IV, Wing No. 5, R.K. Puram, New Delhi - 110 066 |  |
| 3 | Children of Para-Military Personnel <br> (i) For CRPF/BSF, etc Personnel. | Ministry of Home Affairs, FP-I Section, <br> North Block, New Delhi - 110 001 |  |
| (ii) For SSB/B\&AN/SFF/APC Personnel. | Cabinet Secretariat; EA-II Section, Bikaner House (Annex), Shahjahan Road, <br> New Delhi - 110 011 |  |  |
| 4 | Children of India based Staff serving in Indian <br> Missions abroad. | Ministry of External Affairs, Welfare Cell, Akbar Bhavan, <br> Chanakyapuri, New Delhi - 110 021. |  |
| 5 | For meeting diplomatic / bilateral <br> commitments. | Ministry of External Affairs, Student Cell, Akbar Bhavan, <br> Chanakyapuri, New Delhi - 110 021. |  |
| 6 | Tibetan Refugees | Ministry of Human Resource Development, <br> Department of Education, UT-2 Section, A-2/W-4, <br> Curzon Road, Barracks, New Delhi-110 001 |  |
| 7 | National Bravery Award winning children. | Indian Council for Child Welfare, 4 - Deen Dayal <br> Upadhyay Marg, New Delhi - 110 002. |  |

## ANNEXURE - IV (1) GOVERNMENTIAIDED HOMOEO MEDICAL COLLEGES COURSE : BHMS [CODE 'BH'] <br> (See Clause 2.5.2)

| SI. No. | Code | Government Homoeopathic Medical Colleges | University | Total <br> Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | KKH | Government Homoeopathic Medical College, <br> Karaparamba P O, Kozhikode-10 | KUHS | 50 | $0495-2370883$, <br> 2371989 |
| 2 | TVH | Government Homoeopathic Medical College, Iranimuttam, <br> Manacaud P O, Thiruvananthapuram-695009 | KUHS | 50 | $0471-2459459$ |
| Aided Homoeopathic Medical Colleges |  |  |  |  |  |
| 3 | EKH | Dr. Padiyar Memorial Homoeopathic Medical College, <br> Chottanikkara P O, Ernakulam | KUHS | 50 | $0484-2711030$, <br> 2712732 |
| 4 | KTH | Athurasramam NSS Homoeopathic Medical College, <br> Sachivothamapuram P O, Kottayam | KUHS | 50 | $0481-2430729$, <br> 2430362 |
| 5 | NEH | Sree Vidhyadhiraja Homoeopathic Medical College, <br> Nemom, Thiruvananthapuram | KUHS | 50 | $0471-2391213$, <br> 2395017 |

Allotment to Homoeo Colleges will be made only on receipt of recognition from Central Council of Homoeopathy
The list is not final. The final list of Institutions will be published before the Centralized Allotment Process 2016.

> ANNEXURE - IV (2) HOMOEOPATHY (BHMS) DEGREE COURSE SPECIAL RESERVATION SEATS IN HOMOEO MEDICAL COLLEGES
(See Clauses 4.1.12, 5.1, 5.2)

| SI. No. | Category | TVH | KKH | KTH | EKH | NEH | Total |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Nominees of other States / Union Territories with no <br> Medical/Dental Colleges | 1 | - | - | - |  | 1 |
| 2 | Lakshadweep nominee | - | 1 | - | - |  | 1 |
| 3 | Sports Quota | 1 | 1 | - | - |  | 2 |
| 4 | NCC Quota | 1 | 1 | - | - |  | 2 |
| 5 | Ex-Service men Quota | 1 | - | - | - |  | 1 |
| 6 | Serving Defence Quota | 1 | - | - | - |  | 1 |
| 7 | Nurses/ Pharmacist Quota (Homoeo) | - | 1 | - | - |  | 1 |
| 8 | Management Quota | - | - | 8 | 6 | 8 | 22 |
| 9 | For MBBS / BAMS / BVSc \& AH / Agriculture / <br> Fisheries / Forestry Degree holders. | 1 | - | - | - |  | 1 |
|  | $\mathbf{6}$ | $\mathbf{4}$ | $\mathbf{8}$ | $\mathbf{6}$ | $\mathbf{8}$ | $\mathbf{3 2}$ |  |

Note:- The seats reserved under Special Reservation Categories and Nominees will be fixed in the Colleges as shown above.

> | ANNEXURE - V (1) |
| :---: |
| AYURVEDA MEDICAL COLLEGES |
| COURSE : BAMS [CODE ‘BA'] |

(See Clause 2.5.2)

| SI.No. | Code | Government Ayurveda Colleges | University | Total Seats | Phone No |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | KNA | Government Ayurveda College, Medical College P O, Pariyaram, Kannur- 670503 | KUHS | 40 | $\begin{aligned} & 0497-2800167, \\ & 2801688 \end{aligned}$ |
| 2 | TPA | Government Ayurveda College, Dhanwanthari Nagar, Tripunithura, Ernakulam - 682301 | KUHS | 50 | $\begin{aligned} & 0484-2777374, \\ & 2777496 \end{aligned}$ |
| 3 | TVA | Government Ayurveda College, G P O, Thiruvananthapuram- 695001 | KUHS | 70 | $\begin{aligned} & 0471-2460190, \\ & 2473656 \end{aligned}$ |
| Aided Ayurveda Colleges |  |  |  |  |  |
| 4 | KTL | VPSV Ayurveda College, Edarikode P O, Kottakkal, Malappuram | KUHS | 50 | $\begin{aligned} & \text { 0483-2751851, } \\ & 2751874 \end{aligned}$ |
| 5 | OLR | Vaidyaretnam Ayurveda College, Thaikkattussery P.O., Ollur, Thrissur | KUHS | 50 | $\begin{aligned} & \text { 0487-2352503, } \\ & 2357857 \end{aligned}$ |
| Self-financing Ayurveda Colleges** |  |  |  |  |  |
| 1 | AHA | Ahalia Ayurveda Medical College, Elippara, Kozhipara, Palakkad | KUHS | 60 | $\begin{aligned} & 0492-3235888, \\ & 3235901 \end{aligned}$ |
| 2 | KMA | KMCT Ayurveda College, Kozhikode | KUHS | 50 | 0495-2290692 |
| 3 | MAM | Mannam Ayurveda Co-operative Medical College, Pandalam, Pathanamthitta - 689501 | KUHS | 60 | $\begin{aligned} & \hline 0473-4252235, \\ & 4252247 \end{aligned}$ |
| 4 | NGL | Nangelil Ayurveda Medical College, Nellikuzhy P O, Kothamangalam, Ernakulam | KUHS | 60 | $\begin{aligned} & 0485-2851115, \\ & 2822032 \end{aligned}$ |
| 5 | PKJ | Pankajakasthuri Ayurveda Medical College, Kattakada P O, Thiruvananthapuram | KUHS | 60 | $\begin{aligned} & \hline 0471-2293808, \\ & 2295919 \end{aligned}$ |

AYURVEDA MEDICAL COLLEGES [COURSE : BAMS (CODE 'BA')] (Contd ......)

| SI.No. | Code | Self-financing Ayurveda Colleges** | University | Total <br> Seats | Phone No |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 6 | PNA | PNNM Ayurveda Medical College, Cheruthuruthy P O, <br> Shoranur, Thrissur - 679531 | KUHS | 50 | $04884-264411$, <br> 264422 |
| 7 | PPA | P N Panicker Souhruda Ayurveda Medical College, <br> Parakalai P O, Anandhashram via, Kasargode | KUHS | 60 | $0467-2244700$, <br> 2244701 |
| 8 | PRK | Parassinikkadavu Ayurveda Medical College, <br> Parassinikadavu P O, Kannur- 670 563 | 60 | $0497-2780250$, <br> 2783322 |  |
| 9 | SGA | Santhigiri Ayurveda Medical College, Olassery P O, <br> Kodumbu Via, Palakkad -678 551 | KUHS | 60 | $0491-2574343$, <br> 2574574 |
| 10 | SNA | Sree Narayana Institute of Ayurvedic Studies \& Research, <br> Karimpinpuzha P O, Pangode, Puthur, Kollam | KUHS | 60 | $0474-2417036$, <br> 2415020 |
| 11 | VSH | Vishnu Ayurveda College, Govt. Press P O, Shornur, Palakkad | KUHS | 60 | $0466-2220555$, <br> 2221122 |

Allotment to Ayurveda Colleges will be made only on receipt of recognition from Central Council of Indigenous Medicine.
The list is not final. The final list of Institutions will be published before the Centralised Allotment Process 2016.
** Allotments from the State Rank List to Self financing Colleges will be subject to Clauses 1.7 and 2.2
ANNEXURE - V (2)
AYURVEDA (BAMS) COURSE
SPECIAL RESERVATION SEATS IN AYURVEDA MEDICAL COLLEGES
(See Clauses 4.1.13, 5.1, 5.2)

| SI. No. | Category | TVA | TPA | KNA | OLR | KTL | TOTAL |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Andaman Nicobar nominee | 1 | - | - | - | - | 1 |
| 2 | Lakshadeep nominee | - | 1 | - | - | - | 1 |
| 3 | Sports quota | 1 | - | 1 | - | - | 2 |
| 4 | NCC quota | - | 1 | - | - | - | 1 |
| 5 | Ex-Servicemen Quota | 1 | - | - | - | - | 1 |
| 6 | Serving Defence quota | 1 | - | - | - | - | 1 |
| 7 | Management quota | - | - | - | 8 | 5 | 13 |
| 8 | Degree Holders (MBBS/BHMS/DHMS) | 1 | - | - | - | - | 1 |
| 9 | Nurses Quota | - | - | 1 | - | - | 1 |
| 10 | Nationals of Malaysia | 1 | 1 | - | - | - | 2 |
| 11 | Foreign Students | - | 2 | 2 | - | - | 4 |
|  | Total | $\mathbf{6}$ | 5 | $\mathbf{4}$ | $\mathbf{8}$ | 5 | 28 |

* Allotments from the State Rank List to Self financing Colleges will be subject to Clauses 1.7, 2.2 and Clause 5.2 (vii) Note:- The seats reserved under Special Reservation Categories and Nominees will be fixed in the Colleges as shown above.

> ANNEXURE - VI (1) $\frac{\text { SIDDHA MEDICAL COLLEGE - COURSE : BSMS [CODE ‘BS'] }}{\text { (See Clause 2.5.2) }}$

| Sl. No. | Code | Self financing Siddha Medical College* | University | Total Seats | Phone No |
| :---: | :---: | :--- | :---: | :---: | :---: |
| 1 | SGS | Santhigiri Siddha Medical College, Santhigiri P O, <br> Pothencode Via, Thiruvananthapuram -695584 | KUHS | 50 | $0471-6615501$, <br> 6615502 |

[^2]
# ANNEXURE - VII (1) <br> SEATS FOR VARIOUS COURSES UNDER KERALA AGRICULTURAL UNIVERSITY 

(See Clauses 2.3.4, 2.6)

| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Code | Name of College | No. of Seats | Phone No. |
| :---: | :---: | :---: | :---: | :---: |
| MEDICAL STREAM (Agriculture) |  |  |  |  |
| Bachelor of Science in Agriculture - [BSc.( Hons.) Agri] : [Course Code 'AA'] |  |  |  |  |
| 1 | COA | College of Agriculture, Vellayani P O, Thiruvananthapuram - 695522 | 100 | 0471-2381002, 2381915 |
| 2 | COH | College of Horticulture, Vellanikkara, KAU P O, Thrissur - 680656 | 59 | 0487-2370822, 2370790 |
| 3 | CON | College of Agriculture, Padannakkad P O, Kasaragod - 671328 | 50 | 0467-2280616, 2282699 |
| Bachelor of Science in Forestry - BSc. (Hons.) Forestry : [Course Code 'FR'] |  |  |  |  |
| 1 | COR | College of Forestry, Vellanikkara, KAU P O, Thrissur - 680656 | 30 | 0487-2370050, 2371018 |
| ENGINEERING STREAM |  |  |  |  |
| Bachelor of Agricultural Engineering \&Technology [BTech (Agri. Engg)] : [Course Code 'AG'] |  |  |  |  |
| 1 | KCT | Kelappaji College of Agrl. Engg. \& Technology, Tavanur, Malappuram. | 49 | 04942686214 |
| Bachelor of Technology (Food \& Engineering) [B.Tech (Food Engg.)] : [Course Code 'FE'] |  |  |  |  |
| 1 | KCT | Kelappaji College of Agrl. Engg. \& Technology, Tavanur, Malappuram. | 30 | 04942686214 |

## ANNEXURE - VII (2) <br> SEATS FOR COURSE UNDER KERALA VETERINARY \& ANIMAL SCIENCES UNIVERSITY <br> (See Clause 2.7)

| $\begin{aligned} & \hline \mathrm{Sl.} \\ & \mathrm{No.} \end{aligned}$ | Code | Name of College | No. of Seats* | Phone No. |
| :---: | :---: | :---: | :---: | :---: |
| MEDICAL STREAM |  |  |  |  |
| Bachelor of Veterinary Science \& Animal Husbandry** [ [BVSc.\& AH] : [Course Code 'AV'] |  |  |  |  |
| 1 | TCV | College of Veterinary and Animal Sciences, Mannuthy P O, Thrissur - 680651 | 140 | $\begin{aligned} & \text { 0487-2370344, } \\ & 2370451 \end{aligned}$ |
| 2 | WYV | College of Veterinary and Animal Sciences, Lakkidi P O, Pookot, Wayanad - 673576 | 120 | $\begin{aligned} & 0493-6256380, \\ & 6256390 \end{aligned}$ |
| ENGINEERING STREAM |  |  |  |  |
| Bachelor of Technology (Dairy Science \& Tech.) - [BTech (DSc \& Tech)] : [Course Code 'DS'] |  |  |  |  |
| 1 | CDT | College of Dairy Sciences and Technology, Mannuthy, Thrissur | 100 | 04872372861 |
| 2 | CDP | College of Dairy Science \& Technology, Pookode, Lakkidi P O, Wayanad | 40 | $\begin{gathered} \hline 0493-6256380, \\ 6256390 \\ \hline \end{gathered}$ |
| 3 | CDV | College of Dairy Science \& Technology, Chettachal, Vithura, Nedumangadu | 40 | 0472-2888288 |
| Bachelor of Technology (Food Technology) - [BTech (Food Technology)] : [Course Code 'FT'] |  |  |  |  |
| 1 | CFT | College of Food Technology, Thumburmuzhy, Chalakkudy, Thrissur | 40 | 0487-2748016 |

## ANNEXURE - VII (3) <br> SEATS FOR COURSE UNDER KERALA UNIVERSITY OF FISHERIES \& OCEAN STUDIES

(See Clause 2.8)

| Sl. <br> No. | Code | Name of College | No. of <br> Seats | Phone No. |
| :---: | :---: | :--- | :---: | :---: |
| Bachelor of Fisheries Science - [BFSc] : [Course Code 'AF'] |  |  |  |  |
| 1 | COF | Kerala University of Fisheries \& Ocean Studies, <br> Panangad P O, Ernakulam - 682506 | 50 | $0484-2700598,2703782$ |

* Total seats including those under Nominations / Special Reservations.
** The number of seats for BVSC \& AH is subject to change as per direction from Veterinary Council of India.

ANNEXURE - VII (4)
COURSES UNDER KERALA AGRICULTURAL UNIVERSITY I KERALA VETERINARY \& ANIMAL SCIENCES UNIVERSITY I KERALA UNIVERSITY OF FISHERIES \& OCEAN STUDIES -
SPECIAL RESERVATION SEATS IN VARIOUS COLLEGES
(See Clauses 4.1.14, 5.2)

| Category | KAU |  |  |  |  |  | KVASU |  |  |  |  |  | KUFOS <br> BFSc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | BSc. ( Hons.) Agri |  |  |  | B. Tech |  | BVSc \& AH |  | B. Tech |  |  |  |  |
|  |  |  |  | Agrl. Engg | Food Engg | Dairy Science \& Technology |  |  | Food Tech. |  |
|  | COA | COH | CON |  | COR | KCT |  |  | KCT | TCV | WYv | CDT | CDP | CDV | CFT | COF |
| Open seats | 68 | 33 | 31 | 23 | 40 | 25 | 112 | 96 | 80 | 40 | 40 | 38 | 31 |
| ICAR \& VCI | 15 | 9 | 8 | 5 | 7 | 5 | 21 | 18 | 15 |  |  |  | 7 |
| Dairy Farm Instructors (DF) |  |  |  |  |  |  |  |  | 2 |  |  |  |  |
| Children of Agriculturist (Open) (CA) | 3 | 3 | 3 |  |  |  | 1 | 1 |  |  |  |  |  |
| Children of Agriculturist (SEBC) CA (CE) | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
| Children of Agriculturist (SC/ST) CA (CS) | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
| Children of Farm Labourers ( LG / LV / LF ) | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |
| Village level workers (VL) | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Agricultural Demonstrators (AD) | 5 | 5 |  |  |  |  |  |  |  |  |  |  |  |
| Farm Assistant (Agriculture) (FA) | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Diploma holders in Agricultural Science DIP(A) - (DG) | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |
| Sports Quota (SP) |  | 1 |  | 1 | 1 |  | 1 |  | 1 |  |  | 1 | 1 |
| Jews (JW) |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |
| Livestock Inspectors (LS) |  |  |  |  |  |  | 1 | 1 |  |  |  | 1 |  |
| Farm Assistant (Veterinary) (FV) |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| Seats for Children of fishermen (CF) |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| NCC Quota (CC) |  |  |  |  |  |  | 1 |  |  |  |  |  |  |
| Andaman \& Nicobar nominees (A\&N) |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
| Lakshadeep nominees (LD) | 1 | 1 | 1 |  |  |  | 1 | 1 |  |  |  |  | 2 |
| Meghalaya origin (B.Tech - DSc) (MO) |  |  |  |  |  |  |  |  | 2 |  |  |  |  |
| Children of Serving Defence Personnel (SD) |  |  | 1 |  | 1 |  |  | 1 |  |  |  |  |  |
| Defence Killed/Missing/Disabled in action (DK) | 1 |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| Grand Total | 100 | 59 | 50 | 30 | 49 | 30 | 140 | 120 | 100 | 40 | 40 | 40 | 50 |

## ANNEXURE - VIII <br> LIST OF SCHEDULED CASTES (SC)

[As Amended by The Constitution (Scheduled Castes) Orders (Second Amendment) Act, 2002 (Act 61 of 2002) Vide Part VIII Kerala - Schedule 1 Notified in the Gazette of India dated 18.12.2002, The Constitution (Scheduled Castes) Order (Amendment) Act 2007]
[See Clause 5.4.3 (a)]

[^3]37 Mannan (ロఱைonชె), Pathiyan, Perumannan, Vannan, Velan
xxx
39 Moger (other than Mogeyar)
40 Mundala
41 Nalakeyava
42 Nalkadaya
43 Nayadi
44 xxx
45 Pallan
46 Palluvan
47 Pambada
48 Panan
49 xxx
50 Paraiyan, Parayan, Sambavar, Sambavan, Sambava, Paraya, Paraiya, Parayar

51 xxx
52 xxx
53 xxx
54 Pulayan, Cheramar, Pulaya, Pulayar, Cherama, Cheraman, Wayanad Pulayan, Wayanadan Pulayan, Matha, Matha Pulayan
55 xxx
56 Puthirai Vannan
57 Raneyar
58 Samagara
59 Samban
60 Semman, Chemman, Chemmar
61 Thandan (excluding Ezhuvas and Thiyyas who are known as Thandan, in the erstwhile Cochin and Malabar areas) and (Carpenters who are known as Thachan, in the erstwhile Cochin and Travancore State)
62 Thoti
63 Vallon
64 Valluvan
65 xxx
66 xxx
67 Vetan
68 Vettuvan, Pulaya Vettuvan (in the areas of erstwhile Cochin State only).

69 Nerian

## ANNEXURE - IX <br> LIST OF SCHEDULED TRIBES (ST)

[As Amended by The Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002 (Act 10 of 2003) Vide Part - VII Kerala - Second Schedule Notified in the Gazette of India dated 8.1.2003, G.O. (Ms) No. 06/2014/SCSTDD dated 29.01.2014]
[See Clause 5.4.3 (a)]

1 Adiyan
2 Arandan [Arandanan]
3 Eravallan
4 Hill Pulaya, Mala Pulayan, Kurumba Pulayan, Kuravazhi Pulayan, Pamba Pulayan

5 Irular, Irulan
6 Kadar [Wayanad Kadar]
7 xxx
8 Kanikkaran, Kanikkar
9 Kattunayakan
10 [Kochuvelan]
11 xxx
12 xxx
13 Koraga
14 xxx
15 Kudiya, Melakudi
16 Kurichchan [Kurichiyan]
17 Kurumans, Mullu Kuruman, Mulla Kuruman, Mala Kuruman

18 Kurumbas, [Kurumbar, Kurumban]
19 Maha Malasar
20 Malai Arayan [Mala Arayan]
21 Malai Pandaram
22 Malai Vedan [Malavedan]
23 Malakkuravan

25 [Malayan, Nattu Malayan, Konga Malayan (excluding the areas comprising the Kasaragod, Kannur, Wayanad and Kozhikode Districts)
Malayarayar
Mannan (ømonz)
xxX
Muthuvan, Mudugar, Muduvan
Palleyan, Palliyan, Palliyar, Paliyan
xxx
xxx
Paniyan
Ulladan, [Ullatan]
Uraly
Mala Vettuvan(in Kasaragod \& Kannur districts)
Ten Kurumban, Jenu Kurumban
Thachanadan, Thachanadan Moopan
Cholanaickan
Mavilan
Karimpalan
Vetta Kuruman
Mala Panikkar
44 Maratis of Kasargod and Hosdurg Taluk

ANNEXURE - X LIST OF OTHER ELIGIBLE COMMUNITIES (OEC)
[See Clause 5.4.3 (f)]
xxx
Madiga
3 xxx
4 Thachar (other than Carpenter throughout State excluding the erstwhile Malabar area)
5 Chakkamar
6 Varnavar
7 Kudumbi
8 Dheevara/Dheevaran, Arayan, Valan, Nulayan, Mukkuvan, Arayavathi, Valinjiar, Paniakkal

9 Mokaya, Bovi, Mogayar and Megavirar Peruvannan

10 Scheduled Castes converts.
11 Kusavan including Kusavar, Kulalan, Kumbaran, Velaan, Odan, Andhra Nair, Anthru Nair, Velaans, Velaar
12 (Konga-Malayan, Pani Malayan (in the erstwhile Malabar area alone)

13 xxx
14 Allar (Alan)
15 Malavettuvan
16 Malamuthan
17 KunduVadiyan
18 xxx
19 xxx
20 Kalanadi
21 Chingathan
22 Malayalar
23 Malapanicker
24 Urindavan
25 Marati
26 Pulaya Vettuvan (except in the areas of erstwhile Cochin State)

|  | ANNEXURE - X (a) <br> OF COMMUNITIES ELIGIBLE FOR EDUCATIONAL CONCESSIONS AS IS GIVEN TO OEC |
| :---: | :---: |
|  | [G.O.(Ms) No. 10/2014/BCDD dated: 23.05.2014] [See Clause 5.4.3(h)] |
| 1 | Vaniya (Vanika, Vanika Vaisya, Vanibha Chetty, Vaniya Chetty, Ayiravar, Nagarathar and Vaniyan |
| 2 | Veluthedathu Nair (Veluthedan and Vannathan) |
| 3 | Chetty/Chetties (Kottar Chetties, Parakka Chetties, Elur Chetties, Attingal Chetties, Pudukkada Chetties, Iraniel Chetties, Sri Pandara Cetties, Telugu Chetties, Udiyankulangara Chetties, Peroorkada Chetties, Sadhu Chetties, 24 Mana Chetties, Wayanadan Chetties, Kalavara Chetties and 24 Mana Telugu Chetties |
| 4 | Ezhavathi (Vathy) |
| 5 | Ganika |
| 6 | Kanisu or Kaniyar Panicker, Kani or Kaniyan (Ganaka) or Kanisan or Kamnan, Kalari Kurup/Kalari Panicker |
| 7 | Vilkurup, Perumkollan |
| 8 | Yadavas (Kolaya, Ayar, Mayar, Maniyani and Iruman), Erumakkar |
| 9 | Devanga |
| 10 | Pattariyas |
| 11 | Saliyas (Chaliya, Chaliyan) |
| 12 | Pandithar |
| 13 | Vaniar |
| 14 | Ezhuthachan |
| 15 | Chakkala/Chakkala Nair |
| 16 | Reddiars (throughout the State except in Malabar Area) |
| 17 | Kavuthiya |
| 18 | Veerasaiva (Yogi, Yogeeswara, Poopandram, Malapandaram, Jangam, Matapathi, Pandaram, Pandaran, Vairavi, Vairagi) |
| 19 | Vilakkithala Nair - Vilakkithalavan |
| 20 | Vaduka - Vadukan, Vadugar, Vaduka, Vaduvan |
| 21 | Chavalakkaran |
| 22 | Agasa |
| 23 | Kaikolan |
| 24 | Kannadiyans |
| 25 | Kerala Mudalis |
| 26 | Madivala |
| 27 | Naikkans |
| 28 | Tholkolans |
| 29 | Thottian |
| 30 | Mooppar or Kallan Moopan or Kallan Moopar |

I. Ezhavas including Ezhavas, Thiyyas, Ishuvan, Izhuvan, Illuvan and Billava
II. Muslims (all sections following Islam)
III. Latin Catholics and Anglo Indians
IV. Dheevara including Dheevaran,

Araya,Arayas, Arayan, Valan, Nulayan, Mukkuvan, Arayavathi, Valinjiar, Paniakkal, Paniakel, Mukaya, BovisMukayar, Mukaveeran, Mogaveera, Mogavirar,Mogayan
V. Viswakarmas including Viswakarma, Asari, Chaptegra, Kallassari, Kalthachan, Kammala, Kamsala, Kannan, Karuvan, Kitaran, Kollan, Malayala Kammala, Moosari, Pandikammala, Pandithattan, Perumkollan, Thachan, Thattan, Vilkurup, Villasan, Viswabrahmanan or Viswabrahmanar, Viswakarmala and Palisa Perumkollan
VI. Kusavan including Kulalan, Kulala Nair, Kumbaran, Velaan, Velaans, Velaar, Odan, Kulala, Andhra Nair, Anthuru Nair
VII. Other Backward Christians
(a) SIUC
(b) Converts from Scheduled Castes to Christianity
VIII. Kudumbi
IX. Other Backward Hindus, i.e.

1. Agasa
2. Kharvi
3. Aremahrati
4. Arya, Atagara, Devanga, Kaikolan, (Sengunthar) Pattarya, Pattariyas, Saliyas (Padmasali, Pattusali, Thogatta, Karanibhakatula, Senapathula, Sali, Sale, Karikalabhakulu, Chaliya, Chaliyan) Sourashtra, Khatri, Patnukaran, Illathu Pillai, Illa Vellalar, Illathar
5. Bestha
6. Bhandari or Bhondari
7. Boya
8. Boyan
9. Chavalakkaran
10. Chakkala (Chakkala Nair)
11. Devadiga
12. Ezhavathi (Vathi)
13. Ezhuthachan, Kadupattan
14. Gudigara
15. Galada Konkani
16. Ganjam Reddies
17. Gatti
18. Gowda
19. Ganika including Nagavamsom
20. Hegde
21. Hindu Nadar
22. Idiga including Settibalija
23. Jangam
24. Jogi
25. Jhetty
26. Kanisu or Kaniyar-Panicker, Kaniyan, Kanisan or Kamnan, Kannian or Kani, Ganaka
27. $x x x$
28. Kalarikurup or Kalari Panicker
29. Kerala Muthali, Kerala Mudalis
30. Oudan (Donga) Odda (Vodde or Vadde or Veddai)
31. Kalavanthula
32. Kallan including Isanattu Kallar
33. Kabera
34. Korachas
35. xxx
36. Kannadiyans
37. Kavuthiyan, Kavuthiya
38. Kavudiyaru
39. Kelasi or Kalasi Panicker
40. Koppala Velamas
41. Krishnanvaka
42. Kuruba
43. Kurumba
44. Maravan (Maravar)
45. Madivala
46. Maruthuvar
47. Mahratta (Non-Brahman)
48. Melakudi (Kudiyan)
49. xxx
50. Moili
51. Mukhari
52. Modibanda
53. Moovari
54. Moniagar
55. Naicken including Tholuva Naicker and Vettilakkara Naicker, Naikkans
56. Padyachi (Villayankuppam)
57. Palli
58. Panniyar or Pannayar
59. Parkavakulam (Surithiman, Malayaman, Nathaman, Moopanar and Nainar)
60. Rajapuri
61. Sakravar (Kavathi)
62. Senaithalaivar, Elavania, Senaikudayam
63. Chetty/Chetties including Kottar Chetties, Parakka Chetties, Elur Chetties, Attingal Chetties, Pudukkada Chetties, Iraniel Chetties, Sri Pandara Chetties, Telugu Chetties, Udiyankulangara Chetties, Peroorkada Chetties,Sadhu Chetties, 24 Mana Chetties, Wayanadan Chetties, Kalavara Chetties and 24 Mana Telugu Chetties
64. Tholkolan
65. Thottiyan, Thottian
66. Uppara (Sagara)
67. Ural Goundan
68. Valaiyan
69. Vada Balija
70. Vakkaliga
71. Vaduvan(Vadugan), Vaduka, Vadukan, Vadugar
72. Veera Saivas (Pandaram, Vairavi, Vairagi, Yogeeswar, Yogeeswara, Poopandaram, Malapandaram, Pandaran, Matapathi and Yogi)
73. Veluthedathu Nair including Vannathan, Veluthedan and Rajaka
74. Vilakkithala Nair including Vilakkathalavan, Ambattan Pranopakari, Pandithar and Nusuvan
75. Vaniya including Vanika, Vanika Vaisya, Vaisya Chetty, Vanibha Chetty, Ayiravar Nagarathar, Vaniyan, Vaniya Chetty, Vaniar
76. Yadava including Kolaya, Ayar, Mayar, Maniyani, Eruman, Iruman, Erumakkar, Golla and Kolaries
77. Chakkamar
78. Mogers of Kasaragod Taluk
79. xxx
80. Paravans of Malabar area excluding Kasaragod Taluk
81. Peruvannan (Varnavar)
82. Reddiars (throughout the State except in Malabar area)
83. Mooppar or Kallan Moopan or Kallan Moopar

## ANNEXURE - XII

## GUIDELINES FOR THE ISSUE OF THE "CERTIFICATE SHOWING SCHOOL STUDIES IN KERALA FROM STDS. VIII TO XII" BY THE HEAD(S) OF THE EDUCATIONAL INSTITUTIONS

[See Clauses 6.1.1 (b) (iii) ]

1. A "Certificate showing School Studies in Kerala from Standards VIII to XII" issued by the Head of educational institutions in Kerala is prescribed as one of the certificates to prove the eligibility regarding the nativity of candidates appearing for the Entrance Examinations 2016, for admission to Engineering / Medical \& Allied / Architecture courses in Kerala State.
2. The Certificate is to be issued by the heads of the institutions (schools) where the applicant has completed his/her studies in Standard XII.
3. The Head of the school (last attended by the candidate) may rely on the school records/certificates for this purpose making sure that the candidate has undergone his/her studies in Kerala itself in all the classes from Standards VIII to XII. In case of doubt, the Heads of the schools may direct the candidate to obtain necessary proof of the same from the schools attended formerly.
4. In any case the Heads of schools should make sure that the candidate has undergone his/her studies for 5 years from Standards VIII to XII in the schools in Kerala, before the Certificate is issued to the candidate in the prescribed proforma.

# ANNEXURE - XIII (a) <br> CERTIFICATE FOR CLAIMING SPECIAL RESERVATION UNDER QUOTA FOR EX-SERVICEMEN (XS) / DEPENDENT OF DEFENCE PERSONNEL KILLED I MISSING / DISABLED IN ACTION (DK) / DIED-IN-HARNESS (HR) <br> (See Clauses 5.2.1, 5.2.2) 

Certified that Master/Kum.
an applicant for admission to the Professional Degree Courses, Kerala 2016, is the son/daughter/widow* of Shri/Smt
(Official address) who is/was
an ex-serviceman / defence personnel killed / missing / disabled in action and is/was in receipt of Disability Pension / died-in-harness* and that no one else in the family of the applicant has earlier enjoyed the special reservation benefit applicable to them, for admission to Professional Degree Courses in Kerala.

|  | Signature of Military Authority / |
| :--- | :--- |
| Place : | State / Zilla Sainik Welfare Officer |
| Date : | Name |

(Office Seal)

* Strike whichever is not applicable.


# ANNEXURE - XIII (b) <br> CERTIFICATE FOR CLAIM OF SPECIAL RESERVATION UNDER QUOTA FOR CHILDREN OF SERVING DEFENCE PERSONNEL (SD) / PARA MILITARY FORCE PERSONNEL (RP) 

(See Clauses 5.2.3 \& 5.2.4)

Certified that Master/Kum.
an applicant for admission to the Professional Degree Courses, Kerala 2016 is the son/daughter* of Shri/Smt
(Official address)
who is a serving defence / paramilitary force* personnel presently working at

Signature of Commanding Officer
Place
Name
Date
(Office Seal)

* Strike whichever is not applicable.

ANNEXURE - XIV

## [PROFORMA OF THE CERTIFICATES TO BE PRODUCED FOR CLAIM OF RESERVATION FOR CANDIDATES IN GOVT. SERVICE] <br> SERVICE CERTIFICATE FOR CLAIM OF SPECIAL RESERVATION UNDER CATEGORIES NQ / NH / NY

[See Clauses 5.2.10 (i), (ii) \& (iii)]

Certified that Shri/Smt. $\qquad$
official address) an applicant for admission to the Professional Degree Courses, Kerala 2016 is working as and is a regular employee in Kerala State Government

Service.

| Place : | Signature of Issuing Authority |
| :--- | :--- |
| Date : | Name, Designation and |

(Office Seal)

## ANNEXURE - XV <br> INTER-CASTE MARRIAGE CERTIFICATE FOR SON I DAUGHTER OF INTER-CASTE MARRIED COUPLES OF WHOM ONE IS SCIST

[See Clauses 5.4.2 (d), 7.2.1 (a), 7.5.1(c)]
 admission to Professional Degree Courses, Kerala 2016, is the son/daughter of an Inter-caste married couple, and his/her father Shri
belongs to $\qquad$ Community and his/her mother Smt. $\qquad$
belongs to $\qquad$ Community.

Place:
Date : Signature of Village Officer/Tahasildar

Name of Village Officer/Tahasildar
Name of Village \& Taluk :
(Office Seal)

# ANNEXURE - XVI <br> NCOME CERTIFICATE FOR CLAIMING THE SEATS RESERVED FOR THE CHILDREN OF AGRICULTURIST (CA) / FISHERMEN (CF) 

[See Clauses 5.2.11 \& 5.2.13]

## 

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## ANNEXURE - XVII <br> PHYSICAL FITNESS CERTIFICATES

(a). CERTIFICATE OF PHYSICAL STANDARDS / FITNESS

FOR ADMISSION TO BSc.( Hons.) FORESTRY COURSE
[See Clause 13.4 (d) \& (g)]

Signature of candidate


#### Abstract

I, Dr. $\qquad$ after careful personal examination of the case do hereby certify that Sri/Kum $\qquad$ whose signature is given above is having the following physical standards:


| Height |  |
| :---: | :---: |
| Weight |  |
| Chest Normal |  |
| Chest expanded |  |
| Chest expansion |  |
| Vision |  |

He/She is found physically fit to undergo education.

> Signature
> Name
> Reg. No.

| Place : |  |
| :--- | :--- |
| Date | Designation : |

## (b). PHYSICAL FITNESS CERTIFICATE

 FOR ADMISSION TO ENGINEERING / MEDICAL \& ALLIED COURSES [Other than BSc.(Hons.) Forestry course][See Clause 13.4 (g)]

Signature of candidate


Signature
Name
Place :
Reg. No.
Date :
Designation :

# ANNEXURE - XVIII (i) <br> GUIDELINES FOR THE ASSESSMENT OF INCOME FOR THE <br> <br> PURPOSE OF ISSUING INCOME CERTIFICATE 

 <br> <br> PURPOSE OF ISSUING INCOME CERTIFICATE}

## [See Clause 5.4.4]

## (1) Different purposes of Income Certificate:

(a) for availing fee concession in Education Institution.
(b) for securing seats in the quota reserved in professional colleges for the Socially and Economically Backward classes.
(c) for obtaining loans from Government Departments, Kerala Financial Corporation etc. for various purposes.
(d) for getting different kinds of pension such as Old Age Pension, Widow Pension, Agricultural Labourers Pension, Pension for T.B Patients, Leprosy Patients, Cancer Patients etc.
(e) for getting financial aid available to the Ex-Servicemen.
(f) for getting the loan available to the SC/ST for different purposes.
(g) for getting the relief given to the victims of natural calamities.
(h) for getting the artificial limb, cycle, etc., supplied to the physically handicapped persons.
(i) for getting free ration etc.
(2) Definition :
(a) Family :-

For assessing the income of the family, the term of family would mean a family consisting of
(1) Applicant
(2) Parents/Guardian
(3) Unmarried brothers and sisters/ dependant unmarried sons and daughters living together in the same house, widowed daughters actually dependant on the family.
(4) Spouse of the candidate.
(b) Income :-

Income would mean the regular income actually earned by the family members. Income of unmarried daughters and unmarried brothers and sisters as the case may be should be reckoned for calculating family income.

Income of the members of the family living together alone need be reckoned.

## Exceptions

(1) Income of widow's daughter/ sister will be excluded.
(2) Terminal benefits will be excluded.
(3) Surrender leave salary will not be reckoned.
(4) Festival allowance will not be reckoned.
(5) Family pension will be excluded.
(3) Different sources of income for the purpose of Income Certificate :
(i) Income from salary:

Salary income excluding H.R.A., Special pay, Deputation Pay/Allowances etc., will be reckoned for calculating total income. T.A., P.T.A., honorarium for special work etc. will be excluded for calculating salary income. D.A will be included for calculating total income.
(ii) Income from pension:

The amount excluding the amount of commutation will be taken into account for the purpose of Income Certificate. The pension will be assessed on the basis of the Pension Payment Order.
(iii) Income from business:

This can be assessed on the basis of Income Tax Certificate. In the cases of non-assesses the Income Certificate will be issued on the basis of declaration filed by the persons concerned. In the case of nonassesses Income Certificate shall be issued on the basis of the declaration filed by the applicant/parent/or guardian in the case of students.
(iv) Income of persons employed abroad shall be assessed on the basis of the declaration filed by the applicant / parent or guardian in the case of students.
(v) Income of daily labourers:

Income Certificate shall be issued on the basis of the declaration filed by the applicant/ parent or guardian in the case of student.
(vi) Income from property:

The income from property will include the income from produce viz. coconut etc., value of improvements on landed property will be calculated on the basis of the principles adopted for the purpose of land acquisition.
(vii) Income from rented buildings :

Income on this account will be calculated deducting the annual maintenance charges.

## (4) Assessment of income of the family having more members:

When there are more members in a family, the income available for distribution will be less compared to a family having lesser number of members. In such cases an allowance will be given to each member in excess of five. For example if there are five members in a family, three children and parents, the income from all members should be taken into account for computing family income. If the number exceeds five, an allowance will be given to each additional child. The amount of such allowance ( to be decided) should be deducted from the total annual income of the family for the purpose of Income Certificate.
(5) Variation of super checking :

There may be variation between the income assessed by the Village Officer and that arrived at by higher officers on super checking. $10 \%$ or less of such variation can be allowed.
(6) Period of validity :

Normally a Certificate issued to a person for a particular purpose should be binding for a period of two years or for the term of the course.
(7) Cancellation of false Certificates :

The certificates obtained fraudulently, that is by willfully suppressing the actual income or willfully giving false income, will be cancelled.
(8) Authority :

The Village Officer shall be the authority to issue Income Certificate that is required to be produce before the State Government Department or Authorities. In the case of certificate required to be produced before the Central Government Departments the Tahsildar shall be the authority to issue the Income Certificate.

The Tahsildar shall be the Appellate Authority to entertain the appeal if any against the income assessed by the Village Officer. The Revenue Divisional Officer/Deputy Collector shall be the Revisional Authority. Appeal against the income assessed by the Tahsildar shall be preferred before the Revenue Divisional Officer/Deputy Collector. The Collector shall be the Revisional Authority in that case.

## (9) Co-ordinating Department :

The Revenue Department in the Secretariat shall be the Co-ordinating department in respect of the issuance of guidelines/instructions relating to the grant of the Income Certificate, by Village Officer/Tahsildar. The Revenue Department shall be consulted if and when any event/instructions are proposed to be issued in the matter by other departments.

The Application of Income Certificate shall be in the prescribed form, duly affixing Court Fee stamp worth Rs.1/-.
The Income Certificate shall be issued in the form, prescribed by the Revenue Department.

## ANNEXURE - XVIII (ii)

## Norms for selection of candidates for admission to Professional Courses under Sports Quota for which seats are reserved for sports persons Approved by the Standing Committee, KERALA STATE SPORTS COUNCIL

(See clause 5.2.16)

| Priority No. | Order of Priority for Selection of Candidates | Marks out of 100 |
| :---: | :---: | :---: |
| 1 | Representing India in approved World competitions/Olympics and winning First place | 100 |
| 2 | Representing India in approved World competitions/Olympics and winning Second place | 99 |
| 3 | Representing India in approved World competitions/Olympics and winning Third place | 98 |
| 4 | Representing India in World University Games and winning First place | 97 |
| 5 | Representing India in approved World University Games and winning second place | 96 |
| 6 | Representing India in World University Games and winning Third place | 95 |
| 7 | Representing India in Common Wealth Games/Asian Games and winning first place | 94 |
| 8 | Representing India in Common Wealth Games/Asian Games and winning second place | 93 |
| 9 | Representing India in Common Wealth Games/Asian Games and winning Third place | 92 |
| 10 | Representing India in approved World competitions for Juniors and winning First place | 91 |
| 11 | Representing India in approved World competitions for Juniors and winning Second place | 90 |
| 12 | Representing India in approved World competitions for Juniors and winning Third place | 89 |
| 13 | Representing India in approved World Competitions/ Olympics | 88 |
| 14 | Representing India in World University Games | 87 |
| 15 | Representing India in Common Wealth Games/Asian Games | 86 |
| 16 | Representing India in World School Games winning First place | 85 |
| 17 | Representing India in World School Games winning Second place | 84 |
| 18 | Representing India in World School Games winning Third place | 83 |
| 19 | Representing India in the Asian School Games and Asian championships for Juniors/Youth and winning First place | 82 |
| 20 | Representing India in the Asian School Games and Asian championships for Juniors/Youth and winning Second place | 81 |
| 21 | Representing India in the Asian School Games and Asian Championship for Juniors/Youth and winning Third place | 80 |
| 22 | Representing India in approved World Competition for Juniors | 79 |
| 23 | Representing India in World School Games | 78 |
| 24 | Representing India in the Asian School Games and Asian championships for Junior/Youth | 77 |
| 25 | Representing India in SAF Games and winning First place | 76 |
| 26 | Representing India in SAF Games and winning Second place | 75 |
| 27 | Representing India in SAF Games and winning Third place | 74 |
| 28 | Representing India in SAF Games | 73 |
| 29 | Representing India in the SAF Games for Junior/Youths and winning first place | 72 |
| 30 | Representing India in the SAF Games for Junior/Youths and winning Second place | 71 |
| 31 | Representing India in the SAF Games for Junior/Youths and winning Third place | 70 |
| 32 | Representing India in SAF Games for Junior/Youths Championships | 69 |
| 33 | Representing the State/Indian University in National Championships for Men/Women/National Games and Winning First place | 68 |
| 34 | Representing the State/Indian University in National Championships for Men/Women/National Games and Winning Second place | 67 |
| 35 | Representing the State/Indian University in National Championships for Men/Women/National Games and Winning Third place. | 66 |


| 36 | Representing University from Kerala State in the All India Inter University competitions and winning First place | 65 |
| :---: | :---: | :---: |
| 37 | Representing University from Kerala State in the All India Inter University competitions and winning Second place | 64 |
| 38 | Representing University from Kerala State in the All India Inter University competitions and winning Third place | 63 |
| 39 | Representing State in National Championship for Juniors/Youth and winning First place | 62 |
| 40 | Representing State/Combined All India Navodaya/ All India Kendriya Vidyalaya Sankadan team in All India School Games organized by SGFI and winning First place | 61 |
| 41 | Representing State in National Championship for Juniors/Youth and winning Second place | 60 |
| 42 | Representing State/Combined All India Navodaya/ All India Kendriya Vidyalaya Sankadan team in All India School Games organized by SGFI and winning Second place | 59 |
| 43 | Representing State in National Championship for Juniors/Youth and winning third place | 58 |
| 44 | Representing State/Combined All India Navodaya/ All India Kendriya Vidyalaya Sankadan team in All India School Games organized by SGFI and winning third place | 57 |
| 45 | Representing State in South Zone Championship organized by approved State Association for Men/Women and winning First place | 56 |
| 46 | Representing State in South Zone Championship organized by approved State Association for Men/Women and winning Second place | 55 |
| 47 | Representing State in South Zone Championship organized by approved State Association for Men/Women and winning Third place | 54 |
| 48 | Representing State in South Zone Championship organized by approved State Association for Junior/Youth and winning First place | 53 |
| 49 | Representing State in South Zone Championship organized by approved State Association for Junior/Youth and winning Second place | 52 |
| 50 | Representing State in South Zone Championship for Junior/Youth and winning Third place | 51 |
| 51 | Representing District in State Championships organized by approved State Association for Seniors and winning First place | 50 |
| 52 | Representing District in State Championships organized by approved State Association for Seniors and winning Second place | 49 |
| 53 | Representing District in State Championships organized by approved State Association for Seniors and winning Third place | 48 |
| 54 | Representing District in State Championships organized by approved State Association for Juniors/Youth and winning First place | 47 |
| 55 | Representing District in State Championships organized by approved State Association for Juniors/Youth and winning Second place | 46 |
| 56 | Representing District in State Championships organized by approved State Association for Juniors/Youth and winning Third place | 45 |
| 57 | Representing Revenue District in State School Games Championship and winning first place | 44 |
| 58 | Representing Revenue District in State School Games Championship and winning second place | 43 |
| 59 | Representing Revenue District in State School Games Championship and winning third place | 42 |

## NOTE

## MINIMUM ELIGIBILITY FOR ADMISSION TO PROFESSIONAL COURSES UNDER SPORTS QUOTA

For those seeking admission to Professional courses (Medical and Allied Courses, Engineering, Agricultural Course, LLB Course, MA/MSc Course, the minimum achievement required for selection under the Sports Quota will be SI.No.59, i.e., representing the Revenue District in State School Games Championship and winning third place.

1. Approved World competitions mean the competitions organised by the International apex bodies of the concerned discipline and in which the National teams are sponsored by the National apex bodies and cleared by Sports Authority of India/Government of India. Only those International Competitions which are being held at the time of preparation of the norms are included in the priority list.
2. The National Championship means the championships conducted by the National apex body of the concerned discipline.
3. Individual Games/Event mean a Game/Event in which individual performs alone (Relay is considered as team event)
4. When a Candidate has a number of achievements in different disciplines his/her best achievements will be taken into consideration.
5. The achievements in two financial years ( $1^{\text {st }}$ April to $31^{\text {st }}$ March) previous to the year of selection shall alone be considered. However, in the case of competitions which are not organized annually the immediately previous completions shall be deemed as the previous two financial years for the purpose of this list.
6. All competitions where an upper age limit is fixed (Youth/Junior/Sub-Junior) would be treated as junior event provided it is not classified as senior event by the concerned National Federation.
7. If a Candidate represents the Indian University team in the National Championships in Men/Women, he/she will be considered for the benefit of the norms only if he/she was a student in one of the Universities in Kerala during the year of representation.
8. When there is a tie in any of the achievements the following criteria as per the priority list below will be applied to break the tie.
a) Those with a higher number of achievements will be placed above the others. If the tie still remains, the next best achievements as per the order of priority will be considered.
b) If the tie is not broken by the above method the person having the achievement during the year closer to the selection will be given higher weightage.
c) Individual achievements will be ranked above team achievements.
d) If a new record is created he/she will get next priority.
e) If the participants from two age group competitions tie, then participant in the age group with the upper age limit will be given priority.
f) Captaincy in games will be given the next priority.
g) If a tie cannot be broken by any of the above mentioned sports achievements, the marks obtained in the subjects of the qualifying examination will be considered for breaking the tie.

ANNEXURE - XIX
CENTRALIZED ALLOTMENT PROCESS (CAP) - 2016
AUTHORISATION LETTER
SUBMITTED BY AN AUTHORISED REPRESENTATIVE / PROXY OF CANDIDATE
[See Clause 11.10]
I,
Shri/Smt. $\qquad$ having Roll No (name of candidate) son/daughter of

Examination 2016, with Engineering Rank Architecture Rank $\qquad$ Medical Rank in the Entrance Ayurveda Rank $\qquad$ do hereby authorize Shri/Smt $\qquad$
$\qquad$
of the person being authorized) to represent me to report at the allotment venue for admission to Professional Degree Courses, 2016. The signature of the person authorized is attested below by a Gazetted Officer.

(Gazetted Officer to attest the Photograph)
Name
Designation :

Signature of Candidate:
Name
Address :
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
(Signature of authorised representative)

> (ATTESTED)

Signature of Candidate
(Candidate to sign over the Photograph)

## UNDERTAKING

I , undertake that the decision taken if any, by my authorised representative at the allotment venue shall be binding on me and I shall not have any claim whatsoever, other than the decision taken by my authorised representative on my behalf.

Place :
Date : Signature of candidate

[^4]
## ANNEXURE - XX

(See clause 7.4)

## Requirements and Guidelines for Applying Online for KEAM 2016 <br> Basic Requirements for Applying Online

## 1. Prospectus

Read the prospectus of KEAM 2016 before filling up of application.
2. Photograph

Jpeg format of candidate's photograph (see the guidelines for scanning photograph)
3. Email ID and Mobile Number

Candidate should possess a valid email id. Keep this email id live and secure till the end of the admission process, KEAM 2016. If the candidate does not have an email id, a new email id must be created before applying online. Candidate should not provide the email id of others, under any circumstances. A valid email id and a mobile number in India should be given in the online application.
4. Application Fee

Candidate should have details of Application fee remittance. Modes of Payment are:
a) Security Card

Either by purchasing the appropriate Security Card from selected Post Offices; or

## b) Demand Draft

By way of Demand Draft (DD) drawn on a Nationalised/Scheduled Bank, in favour of the Commissioner for Entrance Examinations, payable at Thiruvananthapuram.
5. Certificates/Documents

All other relevant information required to fill in the online application like name, date of birth, category, caste, income, name of village, taluk, district, etc should be kept ready.

## a) Income Certificate

Income certificate from the concerned Village Officer may be obtained, if needed, before filling up the application which helps to fill up the income details in the online application. The income provided will be considered for any fee concession/scholarship/other benefit that may be announced later.

## b) Non-Creamy Layer Certificate/Community Certificate

If you have any claim for communal reservation, obtain a Non-Creamy Layer Certificate/Community certificate (as applicable) from the Village Officer/Tahasildar, concerned.

## 6. Computer System

The computer system used for applying online should have the following facilities:

## a) Internet

Should have an internet connection.

## b) Browser

Should have latest version of Mozilla Firefox.

## c) PDF reader

Should have a PDF reader like, Adobe PDF reader or Foxit Reader.

## d) Printer

The printout of all pages of application should be taken in Laser printer/Deskjet Printer in A4 white paper only.

## Steps involved in applying online

The address of website for applying online for KEAM 2016 is 'www.cee.kerala.gov.in'. Click on KEAM 2016- Online Application link available on the page. There are 7 steps for the submission of application and all are mandatory. Candidates should complete all steps before the last date of submission of application.

## Step1: Candidate Registration

This is a one-time procedure. Click on 'Candidate Registration' link available in the main page.

## How to Fill in?

## 1. Name:

Give Name of Applicant as in the SSLC or other relevant certificate. But the name should not be started with the initial. (Correct examples are SREEJITH R S or ARUN G NAIR) Do not put a dot(.) between initials and name. Instead, provide a blank space.

## 2. Date of Birth:

Provide applicant's Date of Birth as in birth certificate or other relevant certificates. Proof of date of birth must be submitted along with the application. Select Day, Month and Year of birth from the screen.

## 3. Email ID:

Provide your own valid email id. Keep this email id live and secure till the end of the admission process of KEAM 2016. If you do not

Email id and mobile number are mandatory for applying for KEAM 2016. have an email id, a new email id may be created before applying online. Candidate should not provide the email address of others, under any circumstances.

## 4. Mobile Phone Number:

Give the 10 digit number of the candidate or his/her parent's mobile phone. The number should not be prefixed with country code or zero. The mobile number provided will facilitate the office of the CEE to communicate any special information through messages or by calling.

## 5. Password:

Preferably a strong password is recommended. It ensures the candidates' safe online activities. Remember, password is case sensitive. The requirements of a strong password are:

- Minimum length should be 8 characters
- Contains at least one alphabet [a to z or A to Z]
- Contains at least one number [0 to 9]
- Contains at least one symbol [! @ \# \$ \% ^ \& *]


## 6. Retype your password:

Repeat the same password entered in the previous field for confirmation of the Password.

## 7. Security question and Answer:

Choose a question from the list provided in the page and give your own answer to it. Make sure your answer is memorable, but not easy for others to guess.

## 8. Type the code in the box:

This is a captcha. Provide the same numbers as in the screen.
After completing all fields correctly, Press 'Register' button. If you have successfully completed the registration process, a 'Candidate Registration confirmation' page will be displayed. If the applicant is sure that the information provided by them are correct, press 'Confirm'. If not and wants to change any information, press 'Edit' for correcting the data. Candidate will get

Important messages and information regarding KEAM 2016 will be sent to your mobile by messages.

Don't disclose password to others. Remember password till the end of allotment process of KEAM 2016 for further login. Password will be useful for taking printout of Admit Card and for furnishing Mark Data, Registering of Options etc.

> Make sure the answer of your selected security question is memorable. It will be useful when you forget your password for setting a new password.

If any field is incomplete or unfilled, Registration will not be possible. Such field will be displayed in red colour.

Note down the Application Number for further login and reference. a system generated Application Number. Write down the Application number and remember your password for future login to apply online, to view results of examinations, to exercise option registration, to get allotment memo etc.

## Step 2: Candidate Login

Login is required for doing all other steps of online submission.

## How to Fill in?

## 1. Application Number:

In order to login, enter your Application Number provided by the system at the time of registration.

## 2. Password:

The password must be typed exactly as provided at the time of registration. Remember that the password is case sensitive.

## 3. Type the code in the box:

Type the numbers exactly as shown in the screen to login.
If successfully logged in, you will be directed to your Home page from where you can go to various steps such as Fill-up application, Payment of Application fee, Print Application, Change your Password and Download Proformas. For filling up of application, select 'Fill-up Application'

## Step 3: Fill-up Application

## Uploading Photo:

The first step for filling up application is to upload applicant's recent passport size photograph.
Guidelines for scanning and uploading photograph:
For applying online, the candidates must have scanned/digital image of his/her photograph. The Specification of photograph image should be as follows:

- Photograph should be of passport size format. Front view of full face and shoulder portion of candidate is to be seen clearly in the photograph.
- The face of the candidate should be straight and at the centre.
- Photograph must be in colour with a light colour background, white is preferable.
- Photo wearing caps and dark glasses will be rejected.
- Scanned image file should be in jpg (jpeg) format only.
- Dimensions of the photograph $\mathbf{1 5 0}$ pixels width and $\mathbf{2 0 0}$ pixels height
- Size of the image file should be between $\mathbf{1 5} \mathbf{~ k b}$ and $\mathbf{3 0} \mathbf{~ k b}$
- Candidate's name and date of photo taken should be printed at the bottom portion of the photograph with black letter and white background.


## Procedure for Uploading Photograph:

When logging into online Application portal, you are directed to your home page. For uploading photograph, click the 'Fill-up Application' button on the homepage. Under the section named 'Upload Your Recent Photo', click on 'Browse' and select the location where the scanned photograph file has been saved. 'Open' the photo file after clicking on it. The file details will be displayed on the screen. If it is correct click the 'Upload' button. If the specified size and dimensions are met by the jpg file, the selected photograph will be uploaded to the application.
Remember, a printed copy of the uploaded photo should be affixed on the specified place in the printout of the application and get it duly attested.

## Fill up Basic information:

All the basic information required for processing your application are to be filled in at this stage. Before filling the details, please read the KEAM Prospectus 2016 carefully.

During the filling up of application, frequently click 'Save' button available in the home page to protect your data.

The data provided here will be used for processing the application.
Any mistake in filling this page or providing false/incomplete/wrong information will affect the candidate's eligibility for admission or claim for reservation under any category. It is obligatory that the candidate should fill all the mandatory items in the application.

## How to Fill in?

## Examination Details

## 1. Courses opted for:

Put tick mark in the relevant boxes indicating the course or courses to which admission is sought for No further modification in course opted can be made after submission of application.

## 2. Centre of examination:

The Entrance Examinations will be conducted at Thiruvananthapuram (TVM), Kollam (KLM), Pathanamthitta (PTA), Alappuzha (ALP), Kottayam (KTM), Ernakulam (EKM), Thodupuzha(TDP), Kattappana (KPN), Thrissur (TCR), Palakkad (PKD), Malappuram (MLP), Kozhikode (KKD), Wayanad (WYD), Kannur (KNR), Kasaragod (KSD), Mumbai (MUM), New Delhi (DLH) and Dubai (DUB). Select the name of the Centre chosen for examination from the list available. Changes in centre will not be allowed later.

## 3. Name of Applicant:

The name given at the time of registration of candidate will be displayed here. It cannot be altered.

## 4. Date of Birth:

The date of birth given at the time of registration procedure will be shown and cannot be edited.

## 5. Gender:

Select male or female as the case may be.

## 6. Citizenship:

Select applicable citizenship such as Indian, Person of Indian Origin (PIO) or Overseas Citizen of India (OCI).

## 7. Nativity:

Available options here are Keralite, Keralite-AIS, Non-Keralite-I(NK-I) and Non-Keralite-II (NK-II). See Clause 6.1 of the Prospectus for nativity conditions.

## 8. State of Permanent Residence:

Select your state of permanent residence from the available list if you are an Indian citizen.
9.Aadhaar UID: Enter your 12-digit aadhaar number here.

## 10. Parent Details:

i) Name of Father
ii) Name of Mother
iii) Name of Guardian
iv) Relationship with Guardian

## 11. Religion:

Choose your religion from the drop down list.

## 12. Permanent Address:

Type your permanent address with pin code.

## Contact Details

## 13. (i) Address for Communication:

If the communication address is same as permanent address, tick 'Same as above'. If not, type your communication address with pin code. Communication if any will be sent to this address.
(ii) Contact Telephone Numbers:

Provide contact Land telephone number in India with STD code, if available.

## Academic Details

14. Details of qualifying examination:

Qualifying Exam-1:
Select any one of the suitable option given below as qualifying exam-1:

| Kerala Higher Secondary | Kerala Technical HSS | Kerala VHSE |
| :--- | :--- | :--- |
| AISSCE (CBSE) | ISCE (CISCE) | Pre-Degree |
| Others | Not Applicable |  |

## Qualifying Exam-2:

If you want to choose one of the following educational qualifications as the qualifying criteria for the entrance examination, select the appropriate qualifications from the list.

| Diploma | BSc Physics | BSc Chemistry |
| :--- | :--- | :--- |
| BSc Botany | BSc Zoology | BSc Bio-technology |
| Not Applicable |  |  |

Also provide the details such as Passed or Appearing/Appeared, Name of Board or University, Register number regarding the selected qualifying examination. If both Qualifying Exam-1 and Qualifying Exam-2 are selected, the details will be asked about your Qualifying Exam-1 only.

## 15. Subject studied for Higher secondary/Equivalent:

Available subjects for selection are:

Physics
Biology

Chemistry
Bio-technology

Mathematics
Computer Science

## 16. Studied Sanskrit at Plus two level:

Yes/No. This option is available only for those candidates who have opted Medical as course of study.

## Communal Reservation

This section is available only for those candidates who have selected 'Indian' as Citizenship and 'Keralite' as Nativity.

## 17. Details of Community:

Choose your community from the drop down list. In this case, the eligible reservation category, if any, will be automatically determined based on the community selected. If not belongs to any reservation category, select 'General' from the list.

## (a) Reservation under SEBC:

The full list of Socially and Educationally Backward Classes (SEBC) showing the names of the communities included under each of the nine main categories specified above, is given in Annexure XI of the Prospectus. See the clause 5.4.2 of KEAM Prospectus 2016 for more

Non-Creamy Layer Certificate should be attached along with the printout of the Application for claiming SEBC reservation. information.

## (b) Reservation for J ewish Community:

Candidates claiming reservation under Jewish Community, should provide Community Certificate in the prescribed format along with the Application.
(c) Reservation under SC/ST:

Only natives of Kerala and who belong to communities listed in the Scheduled Castes and Scheduled Tribes Orders (Amendment Act 2002) are eligible for reservation under Scheduled Castes/ Scheduled Tribes quota. [The lists are given in Annexure - VIII \& IX of the Prospectus]. For more details refer Clause 5.4.3 of the

Please see Clause 5.4.3 of the prospectus and the 'Warning' given under the clause. Prospectus.

## (d) Reservation under Other Eligible Community:

The list of Other Eligible Communities (OEC) is given in Annexure $X$ of the Prospectus. OEC candidates should furnish Non-Creamy Layer Certificate along with the printout of the Application. Those OEC candidates who have submitted the Non-Creamy Layer Certificate for availing the applicable reservation will be granted the fee concession based on the Non-Creamy Layer Certificate. But those OEC candidates who do not come under NonCreamy Layer Category should submit the Community Certificate obtained from the village officer along with the printout of the application for availing the fee concession. For more details refer Clauses 5.4.3 (f) \& (g) of the Prospectus.

## (e) Communities eligible for educational concessions as is given to OEC:

Candidates belonging to communities listed in Annexure $X(a)$ whose annual family income is up to Rs. 6 lakhs are exempted from payment of fee at the time of allotment only if they produce Community and Income Certificates from the Village Officer along with the printout of the Application. But those candidates who have submitted Non-Creamy Layer Certificate for claiming the applicable reservation need submit the Income Certificate only for availing the fee concession.

## 18. Are you a child of Inter-caste married couple of whom one is either SC/ST:

Select Yes/No as the case may be. If Yes, attach Inter Caste Marriage Certificate from Village Officer.

## 19. Whether SC/ST claim rejected previously? :

If your claim for SC/ST had been rejected by the CEE earlier, select 'Yes'. If not, choose 'Not Applicable'.

## 20. Details of Income Certificate:

Candidates (except SC/ST/OEC) who are desirous of being considered for any fee concession/ scholarship/any other benefits, based on annual family income should produce Income Certificate from concerned Village Officer, along with the Printout of the application itself.
(i) Annual Income in Rupees: Input the annual family income in Indian rupees. The amount of income should be same as one which is provided by the Village Officer.
(ii) District: Pick name of District from the list.
(iii) Taluk: Choose name of Taluk in which the Village is located.
(iv) Village: Name of Village from which the Income certificate obtained.

Claim on special reservations are coming under this section. See clause 5.2.

## 21. Do you claim Special Reservation? :

The candidate who claims one or more special reservation should select the same from the available list.

## 22. Reservation for Persons with Disabilities (PD): <br> For claiming this reservation, choose 'Yes'.

Certificates of proof must be attached along with the application for claiming special reservation and PD.

## Statistics

## 23. Statistics:

Statistical Data are needed for statistical study of the performance of the candidates. Such studies will help, educational planning in future, and are also necessary to make improvements in the Entrance Examination System. Candidates are advised to give correct information, as these data may also be used for processing. The details of items available in statistical data are given below:
a. District of permanent residence:
(a) Thiruvananthapuram
(i) Palakkad
(b) Kollam
(j) Malappuram
(c) Pathanamthitta
(k) Kozhikode
(d) Alappuzha
(l) Wyanad
(e) Kottayam
(m) Kannur
(f) Idukki
(n) Kasaragod
(g) Ernakulam
(o) Others
(h) Thrissur
b. Parent's/ Guardian's occupation:
(a) Agriculture
(g) School Teacher
(b) Business
(c) Industrialist
(d) Doctor
(h) Other Govt. Servant
(e) Engineer
(i) Other Salaried person
(j) Petty Trade/Casual Labour
(f) College/University teacher
(k) Others
c. Residential Area:
(a) Corporation
(d) Panchayat
(b) Municipality
(e) Others
(c) Township
d. Parent's/ Guardian's Education:
(a) Illiterate
(d) Graduation
(b) School level
(e) Post Graduation
(c) Pre-degree/Plus Two level
(f) Professional Education
e. Community:
(a) Ezhava
(b) Muslim
(c) Other Backward Hindu
(d) Latin Catholic \& Anglo Indians
(e) Dheevara \& related communities
(f) Viswakarma \& related communities
(g) Kusavan \& related communities
(h) Converts from SC to Christianity
(i) Other Backward Christian
(j) Kudumbi
(k) Scheduled Castes
(l) Scheduled Tribes
(m) Other Eligible Communities
(n) Forward Hindu
(o) Forward X'ian
(p) Others
f. Number of appearances:

Select number of appearances in KEAM examination (1, 2, 3, 4 or more).
g. Course undergone at Secondary Level:
(a) SSLC(Kerala)
(d) ICSE(CISCE)
(b) SSLC (Outside Kerala)
(e) Others
(c) $\operatorname{AISSCE}(C B S E)$
h. Course undergone at +2 Level:
(a) HSE Kerala)
(d) AISSCE(CBSE)
(b) VHSE (Kerala)
(e) ISCE(CISCE)
(c) HSE/VHSE (Outside Kerala)
(f) Others
i. Medium of Instruction at +2 Level:
(a) Malayalam
(c) Other Languages
(b) English
j. Location of School where +2 studied:
(a) Rural
(b) Urban
k. Annual Family income (from all sources):
(a) Below Rs. 50,000
(d) Rs. 2.5 Lakh - below 4.5 Lakhs
(b) Rs. 50,000 - below Rs. 1 Lakh
(e) Rs. 4.5 Lakh - below 6 lakhs
(c) Rs. 1 Lakh - below 2.5 Lakhs
(f) Rs. 6 lakhs \& above

## Declaration

Click the 'Save and Preview' button to view your application. If corrections are needed, click 'Edit' button to edit the application. Candidate should read the declaration carefully stated on the screen and agree with statements by clicking on the 'I Agree' box.

## Step 4: Final Submission of Application

This is also a one-time procedure. If candidate is sure that the information provided in step 3 are correct, click the button 'Final Submission'. Please note that modification of your application will not be possible after doing this step.

## Step 5: Payment of Application Fee

This step facilitates to provide payment details of application fee. (See the Clauses $7.2 \& 7.3$ ). Candidate should have the remittance details of Application fee. Modes of Payments are through Security Card or Demand Draft.

## 1. Security Card:

The fee of application may be remitted by purchasing a Security Card from the selected Post Offices, the list of which are available on the website. Two types of cards are available through the Post Offices. One is meant for General/SEBC Candidates, the price of which is Rs. 1000/- and the other is intended for SC candidates, the price of which is Rs. 500/-.
Security Cards (free of cost) intended for ST Candidates will be available from Tribal Welfare Offices.
The Serial Number with 7 digits and Key number with 16 characters printed behind the security card should be provided when asked in the Payment section of online application. To see the Key Number on the Security card, gently scratch off the silver panel using a coin, seen on the back of the card.

## 2. Demand Draft:

The Demand Draft drawn on a Nationalised/Scheduled Bank, in favour of the Commissioner for Entrance Examinations, payable at Thiruvananthapuram will be accepted as Application Fee. DD Number, date drawn and name of bank have to be provided in payment section of online application.

## Step 6: Print Application

Candidate should take a printout of all pages of his/her application by using the link 'Print Application'. This link is available in the home page of candidate. Application has to be neatly printed in A4 white paper by using a Laserjet/Deskjet printer.

Important: Once the candidate has completed the online submission of application, he/she should 'Log off' the system by clicking on 'Logout' link. The process of online submission of application is complete when the candidate logs off.
This action is compulsory for preventing the misuse of his/her Home Page by strangers.

## Procedures to be followed after taking printout of the application:

- Affix a photograph with dimension of $3.5 \times 4.5 \mathrm{~cm}$ (this should be the copy of uploaded photo), get it attested by a Gazetted Officer or the Head of the Institution where the candidate has last studied.
- The applicant and the parent should sign in the specified areas on the printout of the Application.
- Get Course Certificate and Nativity Certificate in the prescribed format available in the body of the printout of the application.
- If the candidate claims any reservation, the specified certificate/ format should be certified by the concerned authorities and send along with the application.
- Affix your left hand thumb impression in the space specified in the printout of the application.


## Step 7: Send the printout of the Application and supporting documents to CEE

Enclose the application and all supporting documents (see clauses $7.5 \& 7.6$ of the prospectus) in the envelope provided and send it to reach the Office of the Commissioner for Entrance Examinations before the last date specified for submission of application.

The procedure of submitting online application will complete only after receiving the printout and supporting documents by the Office of the CEE before the specified last date.

## Sa fety Tips for online a pplic ation submission

- Secure your password and key number

Never share, disclose, or provide your password or key number to others. Never save this information in publicly accessed computers. CEE will never send email requesting this information.

- Use recommended Browsers

Always use the latest version of Mozilla Firefox

- Logout Properly

Make sure you log out of your account each time you leave it, especially when you are using public computers. Never leave your computer unattended once you have signed on to online application.

- Clear your Browser's Cache

If you use public or shared computer to access the application portal, it is better to clear the browser's cache before you sign in to online application. Refer FAQ for clearing the cache.

- Do not use Mobile device

Never use any kind of mobile device for online application submission.

- Do not use Multiple Window/Tab in the browser

Do not open more than one KEAM application portal across multiple windows or tabs in the same browser.

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（See clause 7．4）



















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（a）02．05．1966 ๑ை G．O．（P）208／66／Edn．，23．05．2014－๑ย G．O．（Ms）No．10／2014／BCDD，01．01．2015－๑」 G．O．（P）No．1／2015／BCDD，05．01．2015 ๑ย G．O．（Ms）4／2015／H．Edn．，19．01．2015 ๑e G．O．（Ms）15／2015／H．Edn．





























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(See Clause 11)

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# ANNEXURE - XXIII <br> Undertaking from the Students as per the provisions of anti-ragging verdict by the Hon'ble Supreme Court of India 

[See Clause 14.4]
I, Mr./Ms. $\qquad$ Roll No. $\qquad$ Program: $\qquad$ student of $\qquad$ do hereby undertake on this day $\qquad$ Month $\qquad$ year $\qquad$ the following with respect to above subject and Office Order No : $\qquad$ .

1) That I have read and understood the directives of the Hon'ble Supreme Court of India on anti-ragging and the measures proposed to be taken in the above references.
2) That I understand the meaning of Ragging and know that the ragging in any form is a punishable offence and the same is banned by the Court of Law.
3) That I have not been found or charged for my involvement in any kind of ragging in the past. However, I undertake to face disciplinary action/legal proceedings including expulsion from the Institute if the above statement is found to be untrue or the facts are concealed, at any stage in future.
4) That I shall not resort to ragging in any form at any place and shall abide by the rules/laws prescribed by the Courts, Govt. of India and Institute authorities for the purpose from time to time.

Signature of Student
I hereby fully endorse the undertaking made by my child/ward.
Signature of Mother/Father and or Guardian
Witness :

## IMPORTANT ABBREVIATIONS USED

| AICTE | All India Council for Technical Education |
| :--- | :--- |
| CAP | Centralised Allotment Process |
| CBSE | Central Board of Secondary Education |
| CEE | Commissioner for Entrance Examinations |
| CISCE | Council of Indian School Certificate Examination |
| COA | Council of Architecture |
| DCI | Dental Council of India |
| HSE | Higher Secondary Education |
| KAU | Kerala Agricultural University |
| KEAM | Kerala Engineering Agriculture \& Medical |
| KTU | APJ Abdul Kalam Technological University |
| KUFOS | Kerala University of Fisheries \& Ocean Studies |
| KUHS | Kerala University of Health Sciences |
| KVASU | Kerala Veterinary \& Animal Sciences University |
| MCI | Medical Council of India |
| NATA | National Aptitude Test in Architecture |
| NIASA | National Institute of Advanced Studies in Architecture |
| OEC | Other Eligible Community |
| OMR | Optical Mark Reading |
| PD | Persons with Disabilities |
| SC | Scheduled Caste |
| SEBC | Socially and Educationally Backward Classes |
| ST | Scheduled Tribe |
| TFW | Tuition Fee Waiver |
| VHSE | Vocational Higher Secondary Education |
|  |  |

## ANNEXURE- XXIV

(See Clause 10.3.3)

Attention of Invigilator: At the end of exam., please fold at perforation and then tear.
Attention of Candidate : Please do not separate the pages of the Answer Sheet.
 N0001

## LIST OF COURSES AVAILABLE UNDER SPECIAL RESERVATION CATEGORIES

(See Clause 5.2)

| Sl.No | Quotas | Codes | Course(s) under which reservation is available |
| :---: | :---: | :---: | :---: |
| i | Ex-serviceman/Son or daughter of Ex-serviceman | XS | ENGG, MBBS, BHMS, BAMS, B.Arch. |
| ii | Son/daughter of Serving Defence Personnel from Kerala | SD |  |
| iii | Son/daughter, or widows of those who have been in the Defence Services and who have lost their lives, including those missing in action and disabled in action either during war hostilities or in peace time circumstances of which are identical to activities during operational engagements. | DK | ENGG, MBBS, BDS, B.Sc(Hons.) Agri., BFSc, BVSc \& A.H., B.Arch. |
| iv | Son/daughter or widows of Defence Personnel who died-in-harness | HR | ENGG, MBBS, BDS, B.Sc. (Hons.) Agri., BFSc, BVSc \& A.H., B.Arch (In the event of non-availability of candidates mentioned under items (iii) |
| v | Son/daughter of Personnel serving in Paramilitary Forces, including CRPF, BSF, CISF, ITBSF | RP | ENGG., B.Arch. |
| vi | Jewish Community | JW | ENGG, MBBS, BDS, BVSc \& AH, BFSc |
| vii | Degree/Diploma holders in MBBS / BHMS / DHMS | OA | BAMS |
| viii | Degree / Diploma holders in Ayurveda | DA | MBBS |
| ix | Degree / Diploma holders in Homoeopathy | DH | MBBS |
| X | Degree holders in MBBS / BAMS / BVSc \& AH/ BSC (Hons.) Agri. / BFSc / BSc (Hons.) Forestry | OH | BHMS |
| xi | Nurses Allopathy | NQ | MBBS |
| xii | Nurses/Pharmacist (Homoeopathy) | NH | BHMS |
| xiii | Nurses Ayurveda | NY | BAMS |
| xiv | Son/daughter of Agriculturists | CA | B.Sc (Hons.) Agri., BVSc \& AH |
| XV | Son/daughter of Farm Labourers | LG/LV/LF | B.Sc (Hons.) Agri., B.Sc (Hons.) Forestry, BVSc \& AH, BFSc |
| xvi | Son/daughter of Fishermen | CF | BFSC |
| xvii | Scouts \& Guides | SG | ENGG. |
| xviii | Village Level Workers/ Agriculture Demonstrators/ Farm Asst (Agri.) | VL/AD/ FA | B.Sc (Hons.) Agri. |
| xix | Livestock Inspectors/Farm Asst (Vety) | LS/FV | BVSc \& AH, B. Tech Food Technology |
| XX | Diary Farm Instructors | DF | B. Tech. (DSc \& Tech.) |
| xxi | Sports Quota | SP | ENGG, MBBS, BDS, BHMS, BAMS, BVSc \& AH, B.Sc (Hons.) Forestry, BSc (Hons.) Agri., BFSc, B.Tech (DSc \& Tech.), B.Tech (Agri., Engg.), B.Tech Food Technology |
| xxii | NCC Quota | CC | ENGG, MBBS, BDS, BHMS, BAMS, BVSc \& AH., B.Arch. |
| xxiii | Diploma Holders in Agricultural Science | DG | BSc (Hons.) Agri. |

Government of Kerala
Department of Technical Education
G.O.(Ms)No.235/ 2020/HEDN dated:26/06/2020

PROSPECTUS FOR ADMISSION TO P.G. DEGREE COURSE IN
ENGINEERING FOR THE YEAR 2020-21

## I. General

Post Graduate Degree Courses in Engineering are being offered to the graduates in Engineering, in various Engineering Colleges in the State for awarding Masters Degree in the appropriate branches by the Universities concerned. The course shall extent over a period of 24 months consisting of four semesters.

## II. Institutions and Intake

The details of institutions offering P.G. Course in various disciplines towards which centralized allotment will be done and the intake are given in the Annexure A,B and C respectively. For filling up of the $50 \%$ Seats in Private Self Financing Engineering Colleges in the State, the concerned Principals should resort to the Rank list published by the Director of Technical Education complythe reservation norms as mentioned in clause IV of the prospectus. In the absence of candidate in the rank list, other eligible candidates can be considered.

## III. Fee structure

For Institutions in Annexure A and B

| Item |  <br> Aided <br> Institution <br> (Annexure A) | Government Controlled <br> Self Financing Engineering <br> College (Annexure B) | Self-Financing <br> courses in <br> Government Aided <br> Engineering Colleges <br> (Annexure C) |
| :---: | :---: | :--- | :--- |
| Admission <br> Fee | Rs 240/- |  | Tuition Fee <br> Rs 6300/- per <br> semester <br> a) Rs $11030 /-$ per <br> semester for SCT <br> b)Rs 12000/-per semester <br> for Colleges under <br> CAPE,LBS and CCEK <br> c) Rs 25,000/-per <br> semester for Colleges <br> under IHRD |
| a)Rs. 12000/-per <br> semester for TKM <br> College of <br> Engineering, Kollam <br> b)Rs 45000/-per <br> Semester for MA <br> College of <br> Engineering <br> Kothamangalam |  |  |  |
| Caution <br> Deposit | Rs $1500 /-$ | Other fee are applicable and it should be payable <br> at the respective institution |  |

## IV Reservation of seats

a) $30 \%$ Seats are reserved for candidates belonging to Socially and Educationally Backward Classes (SEBC). Candidates belonging to SEBC (OBC) and OEC should produce a certificate to the extent that the candidate belongs to the community which is designated as an SEBC (OBC) / OEC and does not belong to the category of Creamy Layer.
b) $10 \%$ Seats are reserved for SC/ST Candidates. (SC-8\%, ST-2\%)
c) The seats reserved for each category will be distributed among the eligible communities by observing the pattern of general reservation rules of the State.
d) $5 \%$ seats are reserved for different abled candidates.
e) $15 \%$ seats relating to management quota in T K M College of Engineering, Kollam, M A College of Engineering, Kothamangalam and N S S College of Engineering, Palakkad will be filled by the Management (For courses in Annexure A).
f) 16 seats are earmarked in Government Engineering Colleges, Aided Engineering Colleges and Government Controlled Self Financing Engineering Colleges in the State for faculty from Government Polytechnic colleges to pursue M.TechProgramme under Quality Improvement Progamme. Additionally, four seats are earmarked in the above Engineering Colleges for the faculty from Aided Polytechnic colleges in the State for the next two consecutive academic years from 2019-2020 to 2020-2021 as per the G.O(Ms)No. 137/2019/H Edn dated 21.05.2019. Notification will be issued separately in this regard from the Office of Director of Technical Education.
g) The Management seats and sponsored seats if any in the Government Controlled Self Financing Engineering Colleges and self financing courses in Government Aided Engineering colleges (institutions mentioned in Annexure B \& C) will be filled by the institutions themselves. If any sponsored seat remains unfilled, it can be converted to merit seats and the institutions themselves can fill the above seats by inviting separate applications from among the candidates figuring in the rank list published by the Director of Technical Education on merit basis and following reservation policy.

## V. Eligibility for admission

a) The candidates shall be an Indian National.
b) The candidates should have studied the graduate course in an institution approved by the AICTE /UGC approved Deemed Universities in India
c) Incase of candidates who have started the Graduate course in foreign universities, an equivalency certificate from A.P.J. Abdul Kalam Technological University is to be produced.
d) Candidates should have a minimum of 60\% aggregate marks in the Engineering Degree examination. For SEBC (OBC) students, a minimum of $54 \%$ aggregate marks in the Engineering Degree examination is mandatory. For SC/ST candidates a pass in the Engineering Degree course is sufficient.
e) Candidates, who have passed AMIE / AMIETE Examinations and satisfying the following conditions, are eligible for admission.

1) They must have valid GATE score.
2) A minimum of $55 \%$ marks for section B in AMIE/AMIETE examination.
f) Candidates who have appeared for the final semester examination can also apply, provided he /she has passed all the subjects up to and including the $6^{\text {th }}$ semester exam (8th semester for B. Arch students). Confirmation of admission of such candidates shall be subject to the production of qualifying degree before the date stipulated by the affiliated University.
g) Admission shall normally be restricted to those with valid GATE score. However, this stipulation is relaxed in the case of Sponsored candidates.
h) In case seats remain vacant due to lack of candidates with valid GATE score, candidates from Kerala State without valid GATE score will be considered against such vacancies. If seats are still remaining vacant, candidates from other States will be considered for admission.
i) Candidates should produce conversion formula of their CGPA score if the same is not specifically stated in the mark list or certificate. Otherwise the conversion formula of APJ Abdul Kalam Technological University(2015 scheme) will be taken.

## VI. Eligibility and List of M Tech Programme are enclosed as Annexure- A\&B

## VII. (a) Submission of Applications

Applications should be submitted online by log on to the website www.dtekerala.gov.in.orwww.admissions.dtekerala.gov.inThe different entries in the application are to be filled with extreme care, as this information is used for preparing the rank list. The procedure of online submission of application will be completed only by uploading all supporting documents and certificate (mentioned below from a toh) which are applicable. Candidates are directed to keep a copy of the print out of confirmation page of the online application form for further reference. Do not send the print out of the confirmation page and supporting documents to the office of the DTE by post/ E mail/ in person. Candidates are liable to produce all the original documents as and when required by DTE/ admitting authority for verification.
a) Engineering Degree certificate and all Mark lists. Those who are appearing for final examination in this year must produce mark lists up to $6^{\text {th }}$ Semester for B.Tech and $8^{\text {th }}$ Semester for B.Arch students
b) GATE Score card (for Candidates with valid GATE Score)
c) Non-Creamy Layer Certificate or Income Certificate and Community Certificate issued by the village officer for candidates who claim eligibility under SEBC (OBC) quota.
d) Community Certificate issued by the Tahsildar for candidates who claim eligibility for reservation under SC/ST quota.
e) The candidates who belong to OEC category should submit the community and Non Creamy Layer Certificate or Income Certificate issued by the Tahsildar / Village Officer.
f) Sponsorship Certificate and relevant Government order (for sponsored candidates)
g) Differently abled certificate (if applicable).
h) Diploma Certificate for B.Tech Lateral Entry students.

## VII(b).Application FEE and its payment options

Applicants can pay the FEEs online (Internet Banking/UPI payments/Credit or Debit card transactions) while submitting their applications. Application form number has to be specified for online Fee payment. The Fee receipt in pdf format has to be attached along with the application.

Application fee is Rs. 500/- and Rs. 250/-in case of SC/ST Candidates)

## VIII. Selection of Candidates

## 1. For Institutions in Annexures A, B, \& C

a) Candidates will have to register their option while submitting the application.
b) The selection of Candidates will be supervised by the selection committee lead by Senior Joint Director (ECS) under the supervision of the Director of Technical Education Thiruvananthapuram. The Senior Joint Director (ECS) of Directorate of Technical Education, Thiruvananthapuram, will be the co-ordinator and venue of admission work is Directorate of Technical Education, Thiruvananthapuram-23.
c) Selection of candidates will be based on the GATE score. In case of tie, advantage will be given to the candidates who secure highest aggregate percentage of marks up to $6^{\text {th }}$ semester in their qualifying examination ( $8^{\text {th }}$ semester for B.Arch students).
d) If sufficient GATE qualified candidates are not available, the selection will be made from Keralite candidates based on the aggregate percentage of marks up to $6^{\text {th }}$
semester in their qualifying examination (8 $8^{\text {th }}$ semester for B.Arch students). Candidates who produce Nativity Certificate in original obtained as per Annexure D, at the time of admission will only be admitted in this case. A Rank List will be published based on the GATE Score/Percentage of marks. Candidates are requested to verify their branch/Marks/Category etc. at the time of publishing draft Rank List. After finalizing the Rank List, any alteration on those factors will not be entertained under any circumstances.
e) Allotment list will be published in the websites, www.dtekerala.gov.in or www.admissions.dtekerala.gov.in
f) Allotment letter can be downloaded from the website www.dtekerala.gov.in or www.admissions.dtekerala.gov.in. Selected candidates have to remit the fee on or before the deadline published in any of the specified branches of State Bank of India. Otherwise, the admission will be cancelled.
g) Sponsored candidates, if any, will be admitted as per relevant Government Orders.
h) Transfer Certificate issued from the institutions last attended must be produced at the time of admission
i) The selection of candidates will be provisional and subject to verification of original Documents by the Principal concerned at the time of admission.
j) Candidates who get college changes in the subsequent allotments, including spot admission by the Director of Technical Education are to be relieved in time. The amount collected from such candidates by the respective institutions will be refunded in full.

## 2. For Private Self Financing Engineering Colleges in the State

a) A rank list will be prepared, which will include all the eligible applicants as per clause V
b) Institutions will conduct admission by themselves from this rank list, after inviting separate applications and ascertaining the eligibility for admission as per the norms of the University and following the statutory reservation policy. For filling up of $50 \%$
seats, the Principals concerned should resort the rank list published by the Director of Technical Education, and in the absence of candidates in the rank list by Director of Technical Education, other eligible candidates from the rank list prepared by the institutions can be considered.

## IX. Remittance of fee \& Refund of fee

a) The fee for a course allotted to the candidate will have to be paid within the stipulated time at any branch of State Bank of India. Any other mode of payment other than through SBI will not be accepted. The fees collected from candidates will be transferred to the College where the candidate stands admitted on closing of admissions.
b) The amount of fee collected will be refunded to the non - joining candidates only after the closing of admission process for the academic year. No interest will be paid to the candidates.

## X. Important Dates given in Annexure- D

## XI. No Liquidated Damages

As per G.O(Rt)No.77/2019/H.Edn dated 18.01.2019, the liquidated damages are fully exempted and stated that the clause of chapter 7.13 of AICTE approval process Hand Book 2019-20 stated as follows.

1. In the event of a student withdrawing before the start of the course, the entire fee collected from the student, after a deduction of the processing fee of not more thanRs.1000/- (Rupees One Thousand only) shall be refunded by the Institution. It would not be permissible for Institutions to retain the School/Institution leaving certificates in original
2. In case, if a student leaves after joining the course and if the vacated seat is subsequently filled by another student by the last date of admission, the Institution must refund the fee collected after a deductions of processing fee not more than Rs.1000/-(Rupees One Thousand only) and proportionate deductions of monthly fees and hostel rent, where applicable.
3. In case the vacated seat is not filled, the Institution should refund the security deposit and return the original documents.
4. The Institution should not demand fee for the subsequent years from the students cancelling their admission at any point of time. Fee refund along with the return of certificates should be completed within 7 days.
5. Institutions not following guidelines issued by the AICTE regarding refund of fee for cancellation of admission or delaying refunds shall be liable to any one or more of the following punitive actions by the council.

- Fine for Non-Compliance of refund rules of the fee levied against each case shall be five times the total fee collected per student
- Suspension of approval for NRI and supernumerary seats, if any, for one academic year
- Reduction in "Approved Intake"
- No admission in one / more courses (s) for one academic year withdrawal of approval Forprogramme(s)/course(s)


## XII Spot Admission

a) A centralized spot admission will be conducted for the vacant seats if any in the courses specified in Annexure A, B and C on a date fixed later. All students in the rank list are eligible to appear for spot admission. Candidates selected for admission through spot admission will have to join the respective institutions on the date specified by remitting the required fees at the respective institution.
b) Those who are admitted in any institutions through centralized allotment can appear for centralized spot admission without NOC from the Principals of respective institutions. All other candidates should produce the Original Certificates/ mark lists at the time of spot admission. The Principals should issue T.C and release all Certificates and other relevant documents of candidates who obtained allotment through Centralized Spot Admission without any delay.
c) In case seats remains vacant, after the centralized spot admission, the respective institutions can conduct their own spot admission by giving wide publicity and observing reservation norms as specified in clause IV. A separate Rank list may be prepared for the same.

## XIII Teaching / Departmental Assistant ships.

All students shall undertake 8 hours of work per week related to teaching and research activities as assigned by the institutions.

## XIV Scholarship

Scholarship is available for candidates with valid GATE Score as per AICTE norms for the total period of 24 months subject to the following conditions.
a) The student shall give an undertaking to the effect that he/she will not leave the course midway or appear for any Competitive examination not related to Engineering and Technology.
b) The students shall not receive any emoluments, salary, stipend etc. from any other source during the course of study.
c) The Students eligible to receive GATE Scholarship should have valid bank account which is linked with their Aadhar card number

SC/ST students will be eligible for stipend as per Kerala State Government rules.
Any other details not specifically covered by the clause given will be decided by the Director of Technical Education and her decision shall be final and also empowered to cancel any admission found to be illegal subsequent to the admission.

DIRECTOR OF TECHNICAL EDUCATION

| Name of College | Branch | Sl. <br> No. | Specialization | Eligibility | No. of Seats |
| :---: | :---: | :---: | :---: | :---: | :---: |
| College of Engineering, Trivandrum | Civil <br> Engineering | 1 | Geotechnical <br> Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  |  | 2 | Structural Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  |  | 3 | Hydraulics <br> Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  |  | 4 |  <br> Transportation Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  |  | 5 | Geo Informatics | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  |  | 6 | Environmental <br> Engineering | Degree (B. Tech or BE) in Civil / Chemical / Mechanical / Industrial / Automobile / Production/Production cum Plant/ Mechanical stream Automobile / Mechanical stream Production <br> /Mechatronics Engineering/ | 18 |
|  | Mechanical <br> Engineering | 7 | Thermal Science | Degree (B. Tech or BE) in Mechanical <br> / Automobile / Production / <br> Production cum Plant/ Mechanical stream Automobile / Mechanical stream Production / Industrial/ <br> Aeronautical / Aerospace/ <br> Mechatronics Engineering | 18 |
|  |  | 8 | Machine Design | Degree (B. Tech or BE) in Mechanical / Mechanical stream Automobile/ Mechanical stream Production / Industrial Engineering /Mechatronics <br> Engineering/Production/ Production cum Plant / Auto mobile Engineering | 18 |
|  |  | 9 | Propulsion Engineering | Degree (B. Tech or BE) in Mechanical / Mechanical stream Automobile / Mechanical stream Production /Industrial / Aeronautical /Aerospace Engineering /Mechatronics <br> Engineering/Production/ Production cum Plant / Auto mobile Engineering | 18 |


| College of Engineering, Trivandrum | Mechanical Engineering | 10 | Industrial <br> Engineering | Degree (B. Tech or BE) in Industrial <br> / Mechanical / Production / <br> Automobile / Mechanical Stream Production / Production cum Plant/ Mechanical stream Automobile / Aeronautical Engineering / Aerospace Engineering / Mechatronics Engineering | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 11 | Financial Engineering | Degree (B. Tech or BE) in any Engineering Discipline | 18 |
|  |  | 12 | Manufacturing and <br> Automation | Degree (B. Tech or BE) in Mechanical Engineering/ <br> Production Engineering /Auto mobile/ Industrial <br> Engineering/ Manufacturing Technology/ Production cum Plant Engineering | 18 |
|  | Electrical \& Electronics Engineering | 13 | Electrical <br> Machines | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
|  |  | 14 | Power Systems | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
|  |  | 15 | Control <br> Systems | Degree (B. Tech or BE) in Electrical \& Electronics/ Electronics \& Communication/ Instrumentation and Control Engineering | 18 |
|  |  | 16 | Guidance \& Navigational Control | Degree (B. Tech or BE) in Electrical \& Electronics Engineering/ <br> Electronics \& Communication Eng. | 18 |
|  | Electronics$\&$CommunicationEngineering | 17 | Signal Processing | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation / Electronics \& Communication / Electronics \& Instrumentation / Instrumentation/ <br> Electrical \& Electronics / Electronics / Electronics \& Bio Medical/ Instrumentation and Control/Biomedical Engineering | 18 |
|  |  | 18 |  <br> Television <br> Engineering | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation / Electronics \& Communication Engineering | 18 |
|  |  | 19 | Applied Electronics \& Instrumentatio n | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation/ Instrumentation \& Control/ Bio Medical Instrumentation/ Electronics \& Bio Medical Engineering/ Electronics \& Instrumentation/ Instrumentation Engineering/Electronics/ <br> Electronics \& Communication/Bio medical Engineering | 18 |


| College of Engineering, Trivandrum | Electronics \& Communication Engineering | 20 | Micro \& Nano Electronics | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation / Instrumentation \& Control / Bio medical Instrumentation/ Electronics \& Bio-Medical Engineering/ Electronics \& Instrumentation/ Instrumentation Engineering/ Electronics Engineering/ Electronics \& Communication Engineering | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inter <br> disciplinary <br> (Mechanical/ Electrical/ <br>  <br> communication) | 21 | $\begin{aligned} & \text { Robotics } \\ & \text { and } \\ & \text { Automation } \end{aligned}$ | Degree (B. Tech or BE) in Electronics and Communication Engineering / <br> Applied Electronics and Instrumentation/ Instrumentation and control/ Electrical and Electronics Engineering / Mechanical Engineering / <br> Production Engineering / Production cum Plant <br> Automobile Engineering / Industrial Engineering/ Manufacturing Technology | 18 |
|  | Inter <br> disciplinary <br> (Computer Science/ Electrical/ Electronics \& communication) | 22 | Artificial Intelligence | Degree (B. Tech or BE) in Computer <br> Science \& Engineering/ BE in <br> Electronics and Communication <br> Engineering / <br> Applied Electronics and Instrumentation/ Instrumentation and control/ Electrical and Electronics Engineering / Mechanical Engineering / Information Technology | 18 |
|  | Computer <br>  <br> Engineering | 23 | Computer Science \& Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
|  |  | 24 | Information Security | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
|  | Architecture | 25 | Planning (Housing) | Degree In Architecture. (In the absence of students with <br> Architecture Degree, Degree (B. Tech or BE) in Civil Engineering and Degree in Planning will be considered) | 18 |
|  |  | 26 | Urban Design | Degree (B. Arch) in Architecture | 18 |
|  |  | 27 | Environmen tal Design | Degree (B. Arch) in Architecture | 18 |


| Rajiv Gandhi Institute of Technology, Kottayam | Mechanical Engineering | 28 | Industrial Engineering \& Management | Degree (B. Tech or BE) in any Engineering Discipline | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  <br> Electronics <br> Engineering | 29 | Industrial Drives \& Control |  <br> Electronics/Electronics \& Communication/ Electronics/ <br> Applied Electronics and Instrumentation/ Electronics \& Instrumentation/ Instrumentation \& Control Engineering | 18 |
|  | Civil <br> Engineering | 30 | Transportation Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  | Electronics \& Communication | 31 | Advanced Communication \& Information System | Degree (B. Tech or BE) in Electronics \& Communication Engineering / Information Technology | 18 |
|  | Engineering | 32 | Advanced Electronics \& Communication Engineering | Degree (B. Tech or BE) in Electronics \& Communication Engineering | 18 |
|  | Computer <br>  <br> Engineering | 33 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
| Government <br> Engineering College, Thrissur | Civil <br> Engineering | 34 | Environmental Engineering | Degree (B. Tech or BE) in Civil / Chemical / Mechanical/ Industrial / Automobile / Production / Production cum Plant/ Mechanical stream Automobile / Mechanical stream Production Engineering / Mechatronics Engineering | 18 |
|  |  | 35 | WaterResources \& Hydro Informatics | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  |  | 36 | Structural Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  | Mechanical Engineering | 37 | Production <br> Engineering | Degree (B. Tech or BE) in Mechanical / Production / Industrial / Automobile / Mechanical stream Automobile/ Mechanical stream Production/ Production cum Plant/ Mechatronics Eng. | 18 |


|  |  | 38 | Internal Combustion Engines \& Turbo Machinery | Degree (B. Tech or BE) in Automobile / Mechanical / Mechanical stream Automobile Engineering/ Aeronautical Engineering/ Aerospace Engineering | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Government <br> Engineering <br> College, <br> Thrissur | Electrical \& Electronics Engineering | 39 | Power Systems | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
|  |  | 40 | Power <br> Electronics | Degree (B. Tech or BE) in Electrical \& Electronics Engineering/ Electronics \& Communication Eng. | 18 |
|  | Electronics \& Communication Engineering | 41 | Communication <br>  <br> Signal <br> Processing | Degree (B. Tech or BE) in Electronics \& Communication/Electronics Engineering | 18 |
|  | Production Engineering | 42 | Manufacturing Systems <br> Management | Degree (B. Tech or BE) in Production / Mechanical stream Production/ Production cum Plant/ Mechanical stream Automobile / Mechanical / Industrial / Automobile / Printing Technology/ Mechatronics Engineering | 18 |
|  | Chemical Engineering | 43 | Process Control | Degree (B. Tech or BE) in Chemical Engineering/BioTechnology \& Bio-Chemical <br> Engineering. (In the absence of above candidates, Degree (B. Tech or BE) in Instrumentation / Instrumentation \& Control/ Applied Electronics\&Instrumentation/ Electronics \& instrumentation/ Bio Medical / Electronics \& Bio Medical /Bio Medical Instrumentation Engineering will be considered) | 18 |


| Government <br> Engineering College, Thrissur | Computer <br>  <br> Engineering | 44 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Architecture | 45 | Urban Planning | Degree In Architecture. (In the absence of students with Architecture Degree, Degree (B. Tech or BE) in Civil Engineering and Degree in Planning will be considered) | 18 |
| Government <br> College of Engineering, Kannur | Mechanical <br> Engineering | 46 | Advanced <br> Manufacturing \& Mechanical System | Degree (B. Tech or BE) in Mechanical / Production / Industrial / Automobile / <br> Mechanical stream Production / Production cum Plant/ Mechanical stream Automobile Engineering / Mechatronics Engineering | 18 |
|  | Electrical \& Electronics Engineering | 47 | Power Electronics \& Drives | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
|  |  | 48 | Power Systems | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
|  | Civil Engineering | 49 | Computer Aided Structural Engineering | Degree (B. Tech or BE) in Civil Engineering | 18 |
|  | Electronics \& Communication Engineering | 50 | Signal <br> Processing \& Embedded Systems | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation / Instrumentation/ Electronics \& Communication / Electronics \& Instrumentation / Electrical \& Electronics / Electronics / Electronics \& Bio Medical Engineering | 18 |
| Government Engineering College, <br> Barton Hill, <br> Thiruvanant hapuram | Information Technology | 51 | Network Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering/Information Technology/ Electronics \& Communication/ Electrical \&Electronics Eng. | 18 |


| Government Engineering College, Barton Hill, Thiruvanant hapuram | Mechanical <br> Engineering | 52 | Machine Design | Degree (B. Tech or BE) in <br> Mechanical / Mechanical stream Automobile/ <br> Mechanical stream Production / Industrial Engineering / Mechatronics Engineering/ Production/ Production cum Plant/Auto mobile Engineering. | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Electronics \& Communication Engineering | 53 | Signal Processing | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation / Electronics \& Communication / Electronics \& Instrumentation / Electrical \& Electronics / Electronics / Electronics \& Bio Medical Engineering / Instrumentation/ <br> Instrumentation and Control/Bio Medical Eng. | 18 |
|  |  <br> Electronics <br> Engineering | 54 | Power System \& Control | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
| Government Engineering College, Kozhikode | Chemical <br> Engineering | 55 | Computer Aided Process Design | Degree (B. Tech or BE) in Chemical Engineering, Bio Chemical Engineering, Bio Technology, Bio Technology \& Bio Chemical Engineering, Polymer and Rubber Technology, Polymer Engineering, Fire and Safety Engineering, Petroleum Engineering/ <br> Instrumentation/ Instrumentation and Control/Applied Electronics \& Instrumentation/Electronics\& Instrumentation/ Bio Medical/ Electronics \& Bio Medical/ Bio Medical Instrumentation Eng. | 18 |
|  | Applied <br>  <br> Instrumentation | 56 | Signal <br> Processing |  <br> Electronics / Electronics / Electronics \& Bio Medical/ Bio Medical/ Instrumentation and Control Engineering | 18 |


| Government Engineering College, Kozhikode | Mechanical <br> Engineering | 57 | Energy Systems Analysis \& Design | Degree (B. Tech or BE) in Mechanical /Chemical/Energy Engineering | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Government Engineering College, Idukki | Electrical \& Electronics Engineering | 58 | Power Electronics \& Control | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 18 |
|  | Computer <br>  <br> Engineering | 59 | Computer Science \& System Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
|  | Information Technology | 60 | Network <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering/Information Technology/ Electronics \& Communication/ Electrical \&Electronics Eng | 18 |
|  | Electronics \& Communicatio n Engineering | 61 |  <br> Embedded <br> Systems | Degree (B. Tech or BE) in <br> Electronics \& Communication / Applied Electronics / Applied Electronics\&Instrumentation /Electronics \& Instrumentation/ Electronics \& Bio Medical / Electronics/Instrumentation/Bio Medical/Electrical \& Electronics Eng. | 18 |
| Government Engineering College, Sreekrishnapur am, Palakkad | Computer <br>  <br> Engineering | 62 | Computational Linguistics | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
| Government Engineering College, Wayanad | Electronics \& Communicatio n Engineering | 63 | Communication <br> Engineering \& Signal Processing | Degree (B. Tech or BE) in Electronics \& Communication/Electronics Engineering | 18 |
|  | Computer <br> Science \& Engineering | 64 | Network \& Security | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
| TKM College of Engineering, Kollam | Mechanical <br> Engineering | 65 | Industrial Refrigeration \& Cryogenic Engineering | Degree (B. Tech or BE) in <br> Mechanical / Mechanical stream Automobile / Mechanical stream Production/ <br> Production/Production cum <br> Plant/ Industrial/Aerospace/ <br> Mechatronics / Aeronautical Eng. | 15 |
|  | Civil <br> Engineering | 66 | Structural Engineering \& Construction Management | Degree (B. Tech or BE) in Civil Engineering | 15 |


| TKM College of Engineering, Kollam | Inter <br> disciplinary <br> (Computer Science/ <br> Electrical/ <br> Electronics \& communication ) | 67 | Artificial Intelligence | Degree (B. Tech or BE) in Computer Science \& Engineering/ <br> BE in Electronics and Communication Engineering / <br> Applied Electronics and Instrumentation/ Instrumentation and control/ Electrical and Electronics Engineering / Mechanical Engineering / Information Technology | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Electronics \& Communicatio n Engineering | 68 | Communication System | Degree (B. Tech or BE) in Electronics \& Communication Engineering/ Electronics/ Electronics and Instrumentation/ Applied Electronics \& Instrumentation/ Electronics \& Tele communication Eng. | 15 |
|  | Computer <br>  <br> Engineering | 69 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 15 |
|  | Architecture | 70 | Urban Planning | Degree in Architecture. (In the absence of students with Architecture Degree, Degree (B. Tech or BE) in Civil Engineering and Degree in Planning will be considered | 15 |
| MA College of Engineering, Kothamangalam |  <br> Electronics <br> Engineering | 71 | Power Electronics | Degree (B. Tech or BE) in Electrical \& Electronics / Electronics \& Communication Engineering | 15 |
|  | Electronics \& Communicatio n Engineering | 72 | VLSI \& Embedded System | Degree (B. Tech or BE) in <br> Electronics \& Communication / <br> Applied Electronics / Applied Electronics \& Instrumentation / Electronics \& Instrumentation / Instrumentation/ Electronics \& Bio Medical / Electronics/Bio Medical/ Electrical \& Electronics Engineering | 20 |
|  | Civil <br> Engineering | 73 | Structural Engineering \& Construction Management | Degree (B. Tech or BE) in Civil Engineering | 20 |
|  | Mechanical Engineering | 74 | Thermal Power Engineering | Degree (B. Tech or BE) in Mechanical / Automobile / Production/ Production cum Plant/ Mechanical stream Automobile / Mechanical stream Production / Industrial Engg./ Aeronautical Engineering / Aerospace/Mechatronics Eng. | 20 |


| MA College of Engineering, Kothamangalam | Computer <br>  <br> Engineering | 75 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 20 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NSS College of Engineering, Palakkad. |  <br> Communicatio n Engineering | 76 | Communication Engineering | Degree (B. Tech or BE) in <br> Electronics \& Communication <br> Engineering/ Electronics/ <br> Electronics \& Instrumentation/ <br>  <br>  <br> Tele communication Engineering | 15 |
|  |  <br> Electronics <br> Engineering | 77 | Power Electronics | Degree (B. Tech or BE) in Electrical \& Electronics/ Electronics \& Communication Engineering | 15 |
|  | Computer <br>  <br> Engineering | 78 | Computer <br> Science \& Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 15 |
|  | Civil <br> Engineering | 79 | Structural Engineering | Degree (B. Tech or BE) in Civil Engineering | 15 |
|  | Mechanical <br> Engineering | 80 | Computer <br> Integrated <br> Manufacturing | Degree (B. Tech or BE) in <br> Mechanical / Industrial/ <br> Production/ Production cum Plant/ Automobile / Mechanical stream Automobile / Mechanical Stream Production Engineering / Mechatronics Engineering | 15 |

NB: The equivalent degree courses on each subject can be referred from AICTE Approval Process Handbook 2020-21 Annexure 6 (pages: 267 to 272)

ANNEXURE B
LIST OF GOVERNMENT CONTROLLED SELF FINANCING INSTITUTIONS WITH M.TECH PROGRAMMES
(Details of seats filled by DTE through online allotment)

| Name of College | Branch | $\begin{aligned} & \text { Sl. } \\ & \text { No } \end{aligned}$ | Specialization | Eligibility | No. of seats |
| :---: | :---: | :---: | :---: | :---: | :---: |
| College of Engineering, Kidangoor, Kottayam (under CAPE) | Electronics \& Communication Engineering | 1 | Wireless <br> Technology | Degree (B. Tech or BE) in Applied <br>  <br> Instrumentation/Electronics\& Communication/Electronics and Instrumentation Engineering | 14 |
|  | Computer <br>  <br> Engineering | 2 | Computer \& Information Science | Degree in Computer Science \& Engineering / Information Technology | 14 |
| College of Engineering \& Management, Punnapra, Alappuzha (under CAPE) | Computer <br>  <br> Engineering | 3 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 14 |
| College of Engineering, Perumon, Kollam (under CAPE) | Computer <br>  <br> Engineering | 4 | Computer \& Information Science | Degree in Computer Science \& Engineering / Information Technology | 14 |
| College of Engineering, Thalassery, Kannur (under CAPE) | Mechanical <br> Engineering | 5 | Manufacturin g System \& Management | Degree (B. Tech or BE) in Production / Mechanical stream Production / Production cum Plant/ Mechanical stream Automobile / Mechatronics Engineering / Mechanical/Industrial / Automobile / Printing Technology | 14 |


| College of <br> Engineering, Thalassery, Kannur (under CAPE) | Electronics \& Communicatio n Engineering | 6 | Signal <br> Processing | Degree (B. Tech or BE) in Applied <br> Electronics \& Instrumentation / <br> Electronics \& Communication / <br> Electronics \& Instrumentation / <br>  <br> Electronics / Electronics / <br> Electronics \& Bio <br>  <br> Control/Bio Medical Engineering | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sree Chitra <br> Tirunal College of Engineering, Pappanamcode, Thiruvananthap uram (under KSRTC) | Mechanical <br> Engineering | 7 | Machine Design | Degree (B. Tech or BE) in Mechanical / Mechanical stream Automobile/ <br> Mechanical stream Production / <br> Industrial/ Mechatronics/ <br> Production / Production cum <br> Plant/Auto mobileEngineering | 15 |
|  | Electronics \& Communicatio n Engineering | 8 | Signal Processing | Degree (B. Tech or BE) in Applied Electronics \& Instrumentation / Electronics \& Communication / Electronics \& Instrumentation / Instrumentation/ Electrical \& Electronics / Electronics / Electronics \& Bio Medical/ Instrumentation \& Control/Bio Medical Engineering | 15 |
|  | Computer <br>  <br> Engineering | 9 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 15 |
| LBS College of Engineering, Muliyar, Kasaragod (under LBS) | Mechanical <br> Engineering | 10 | Thermal \& Fluid Engineering | Degree (B. Tech or BE) in <br> Mechanical / Automobile / Production / Production cum <br> Plant/ Mechanical stream Automobile / Mechanical stream <br> Production/ Mechatronics <br> Engineering / Aeronautical <br> Engineering / Aerospace <br> Engineering / Industrial Engineering | 14 |
|  |  | 11 | Power Systems and Power Electronics | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 14 |


| LBS College of <br> Engineering, <br> Muliyar, <br> Kasaragod <br> (under LBS) | Electronics \& Communication Engineering | 12 | VLSI Design \& Signal Processing | Degree (B. Tech or BE) in Electronics \& Communication / Applied Electronics / Applied Electronics \& Instrumentation / Instrumentation/ Electronics \& Instrumentation / Electronics \& Bio Medical / Electrical \& Electronics / Electronics Engineering | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Computer <br>  <br> Engineering | 13 | Computer Science \& Information Security | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 14 |
|  | Computer <br>  <br> Engineering | 14 | Computer <br>  <br> Engineering | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 18 |
| LBS Institute of <br> Technology for Women, <br> Poojappura, <br> Thiruvananthap uram (under LBS) | Electronics \& Communication Engineering | 15 | Signal <br> Processing |  <br> Electronics / Electronics / Electronics \& Bio Medical/ Instrumentation \& Control/Bio Medical Engineering | 18 |
| College of Engineering, Munnar, Idukki (under CCE) | Electronics \& Communication Engineering | 16 | VLSI \& Embedded Systems |  <br> Bio Medical / Electronics <br> Engineering/ Bio Medical/ Electrical \& Electronics Engineering | 16 |
|  | Computer <br>  <br> Engineering | 17 | Computer \& Information Science | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 16 |


| College of <br> Engineering, <br> Munnar, Idukki <br> (under CCE) |  <br> Electronics <br> Engineering | 18 | Power <br> Electronics | Degree (B. Tech or BE) in <br> Electrical \& Electronics/ <br> Electronics \& Communication <br> Engineering | 16 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| College of <br> Engineering, <br> Cherthala, <br> Alappuzha <br> (under IHRD) | Computer <br>  <br> Engineering | 19 |  <br> Information <br> Science | Domputer Science \& Engineering <br> / Information Technology | 14 |


|  |  | 23 | VLSI \& Embedded Systems | Degree (B. Tech or BE) in Electronics \& Communication / Applied Electronics / Applied Electronics \& Instrumentation / Electronics \& Instrumentation / <br> Instrumentation/Electronics \& Bio Medical / Electronics/ Bio Medical/ Electrical \& Electronics Engineering | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model <br> Engineering College, Thrikkakara, Ernakulam (under IHRD) |  <br> Communication <br> Engineering | 24 | Signal Processing |  <br> Instrumentation / Electronics \& Communication / <br> Electronics \& Instrumentation / Electrical \& Electronics / Electronics / Instrumentation/ Electronics \& Bio Medical / Instrumentation \& Control/Bio Medical Engineering | 14 |
|  | Computer <br>  <br> Engineering | 25 | Image Processing | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology | 14 |
|  | Mechanical <br> Engineering | 26 | Energy <br> Management | Degree (B. Tech or BE) in Mechanical / Automobile / Production / Production cum Plant/ Industrial / Mechanical steam Automobile / Mechanical steam Production / Electrical \& Electronics / MechatronicsEngineering | 14 |
| College of Engineering, Kallooppara, Pathanamthitta (under IHRD) | Computer <br>  <br> Engineering | 27 | Cyber Forensic \& Information Security | Degree (B. Tech or BE) in Computer Science \& Engineering / Information Technology / Electronics \& Communication / Electronics \& Instrumentation Engineering / Instrumentation | 14 |

NB: The equivalent degree courses on each subject can be referred from AICTE Approval Process Handbook 2020-21 Annexure 6 (pages:267 to 272)

## ANNEXURE C

LIST OF SELF FINANCING COURSES FOR WHICH DTE TO ALLOT 50\%OF THE TOTAL INTAKE OF STUDENTS WHICH ARE BEING RUN IN THE GOVERNMENT AIDED ENGINEERING COLLEGE ON SELF-FINANCING BASIS

| Name of College | Branch | $\begin{aligned} & \text { Sl. } \\ & \text { No } \end{aligned}$ | Specialization | Eligibility | No. of seats |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TKM <br> Engineering College | Mechanical Engineering | 01 | Computer Integrated Manufacturing | Degree (B. Tech or BE) in Industrial/ <br> Mechanical/Production/ Production cum Plant/ Automobile/ mechanical Stream Production/ mechanical Stream <br> Automobile/ Mechatronics Engineering | 9 |
|  |  <br> Electronics <br> Engineering | 02 | Industrial Instrumentation and Control | Degree (B. Tech or BE) in Electrical \& electronics Engineering/ Applied Electronics \&Instrumentation/ Instrumentation \& Control / Electronics <br> \&Instrumentation/Instrumen tation <br> Engineering/Electronics \& Communication/Electronics/ Electronics and Bio Medical Engineering | 12 |
|  |  | 03 | Power Systems | Degree (B. Tech or BE) in Electrical \& Electronics Engineering | 9 |
| MA College of Engineering | Civil <br> Engineering | 04 | Computer Aided Structural Engineering | Degree (B. Tech or BE) in Civil Engineering | 9 |
|  | Mechanical Engineering | 05 |  <br> Industrial <br> Engineering | Degree (B. Tech or BE) in Mechanical/Production/ Production cum Plant/ Industrial/Automobile/ Mechanical Stream Auto mobile/Mechanical Stream Production Engineering/ Mechatronics Engineering | 9 |

## NB: The equivalent degree courses on each subject can be referred from AICTE Approval Process Handbook 2020-21 Annexure 6 (pages:267 to 272)


#### Abstract

ANNEXURE -D I. Nativity Certificate issued by the Village Officer/ Tahsildar

OR II. The true copy of relevant page of Secondary school Leaving Certificate of the Candidate showing the place of birth in Kerala.

\section*{OR} III. A Certificate of birth from the authority competent to register birth (Panchayat/Muncipality/Corporation) showing the candidate place of birth in Kerala.

OR IV. The true copy of relevant page of the passport of the candidate issued by Government of India, showing place of birth in Kerala.


| ANNEXUREE |  |
| :--- | :--- |
| IMPORTANT DATES |  |
| Filling up of Online application form and uploading <br> scanned document | $07.09 .2020-14.09 .2020$ |
| Date of publishing Draft Rank List | 30.09 .2020 |
| Date of publishing final Rank List | 05.10 .2020 |
| First Allotment | 12.10 .2020 |
| Date of remittance of fee | Up to 14.10 .2020 |
| Option Rearrangement | $15.10 .2020-16.10 .2020$ |
| Second allotment | 20.10 .2020 |
| Date of remittance of fee | Up to 22.10 .2020 |
| Date of Joining | 27.10 .2020 |
| Date of receipt of non-join report in CET | 28.10 .2020 |
| Commencement of Classes | 01.11 .2020 |


[^0]:    OFFICE OF THE COMMISSIONER FOR ENTRANCE EXAMINATIONS
    $5^{\text {th }}$ FLOOR, HOUSING BOARD BUILDINGS, SANTHI NAGAR, THIRUVANANTHAPURAM - 695001
    Phone: 0471-2332120, 2338487
    www.cee-kerala.org

[^1]:    * Subject to change

[^2]:    * Allotments from the State Rank List to Self financing Colleges will be subject to Clauses 1.7 and 2.2

[^3]:    Adi Andhra
    Adi Dravida
    Adi Karnataka
    Ajila
    Arunthathiyar
    Ayyanavar
    Baira
    Bakuda
    xxx
    Bathada
    xxx
    Bharathar (Other than Parathar), Paravan
    xxx
    Chakkiliyan
    Chamar, Muchi
    Chandala
    Cheruman
    Domban
    xxx
    xxx
    XXX
    Gosangi
    Hasla
    Holeya
    Kadaiyan
    Kakkalan, Kakkan
    Kalladi
    Kanakkan, Padanna, Padannan
    xxx
    Kavara (other than Telugu speaking or Tamil speaking Balija Kavarai, Gavara, Gavarai, Gavarai Naidu, Balija Naidu, Gajalu Balija or Valai Chetty)

    Koosa
    Kootan, Koodan
    Kudumban
    Kuravan, Sidhanar, Kuravar, Kurava, Sidhana
    Maila
    Malayan [In the areas comprising the Malabar District as specified by Sub-section (2) of Section 5 of the State Re-organization Act. 1956 (37 of 1956)].

[^4]:    Note: An authorized representative attending CAP must bring a photocopy also of the filled in form. The same will be returned to the representative with the seal of the CEE's office. This copy of the filled in form having the seal of the CEE's office can be used in lieu of authorization letter during subsequent appearances.

