

ADMISSION TESTS

1. THE COMMON ADMISSION TEST (CAT)

Marks and Scoring

The CAT score will be calculated as per the formula, $S = 3R - 1W$, where S is the CAT score, R is the number of right answers and W is the number of wrong answers.

Negative marks will be given for each wrong answer. In case of a tie, the existing University norms will be followed.

The Structure of CAT

The CAT comprises the following:

Subject of Tests

Code

Test for B.Tech and M.Sc Photonics

101

LET

102

Aptitude Test for B.B.A LL.B. (Hons.)

201

Test for M.A. Hindi

301

Aptitude Test for MBA (F.T.) / (P.T.), MBA (I.B.) & M.B.A. (T.T.)

401

Aptitude Test for MCA

501

Biotechnology

601

Botany

602

Chemical Engineering

603

Chemistry

604

Electronic Science

606

Engineering Science

607

Fisheries

608

Geology

609

Law (for LL. M)

610

Life Sciences

611

Mathematics	612
Physics	613
Statistics	614
Zoology	615
M.A. Applied Economics	616

Group Discussion and Interview

Applicants for B.B.A. LL.B. (Hons.), LL.M., M.B.A (Full-time) / M.B.A (Part-time), M.B.A (International Business), M.B.A. (T.T.) & M.Sc. Industrial Fisheries will be short-listed on the basis of their performance at the CAT and will be required to attend Group Discussion and / or Interview.

CAT Rank Lists

Rank lists for B.B.A. LL.B. (Hons.), LL.M., M.B.A (Full-time) / (Part-time), M.B.A (International Business) M.B.A. (T.T.) & M.Sc. Industrial Fisheries are prepared on the combined basis of the CAT score, performance at Group Discussion and / or Interview as indicated below :

B.B.A.LL.B.(Hons.), LL.M., M.B.A (F.T) / (P.T), M.B.A (International Business) & M.B.A. (Travel & Tourism)

CAT Score	70%
Group Discussion	15%
Interview	15%
Total	100

M.Sc. Industrial Fisheries

CAT Score	85%
Interview	15%
Total	100

For all other programmes the marks secured at the Common Admission Test in the subject that qualifies the candidate for admission to the programme alone will be considered for preparing the Rank list. However, in the case of programmes where multi-disciplinary Tests are conducted, rank lists are drawn up on the basis of the Percentile Index determined by the formula, $\frac{n-p}{n} \times 100$ where n is the number of candidates appearing for the Test in a particular subject and p is the position according to the CAT score. The Percentile Indices are then integrated to obtain the relative position of the candidate in the rank list for that particular programme.

Candidates, appearing for Test 101, Test for First Degree programmes in Engineering and Technology, should have scored a minimum of ten marks in each of the papers (101-MA and 101-PC) to be eligible to figure in the respective rank list. This requirement of minimum marks, however, will not be applicable for candidates coming under SC/ST communities.

i) Test for First Degree programmes in Engg. & Technology

The Test comprises two papers:

- a.) Mathematics (Test 101)
- b.) Physics and Chemistry (Test 101)

Each of these papers consists of 125 objective type questions. Physics and Chemistry (plus two level) paper maintains a ratio of 3:2. All candidates applying for any of the following first degree programmes in Engineering & Technology have to necessarily take both the papers of the Test 101.

5-year Integrated M.Sc. in Photonics

B. Tech. course in Civil Engineering, Computer Science & Engineering, Electronics & Communication Engg., Electrical & Electronics Engineering, Information Technology, Marine Engineering, Mechanical Engg., Safety & Fire Engg.

B. Tech. course in Instrumentation Technology

B. Tech. Naval Architecture & Ship Building

B. Tech. Polymer Science & Engineering

ii) Aptitude Test for B.B.A. LL.B. (Hons.)

The Test for B.B.A. LL.B.(Test 201) comprises 150 objective type questions designed to test the proficiency in General English (50 questions) ability in reasoning and logical thinking (50 questions) proficiency in General Knowledge and Current affairs (25 questions) and in law related matters (25 questions). The maximum marks will be 450.

Applicants for B.B.A. LL.B. (Hons.) irrespective of whether or not they are applicants for any other programme, have to necessarily take the Test 201.

iii) Test for LL.M.

The Test for LL.M. (Test 610) comprises two parts :

Part I – Proficiency in English, Analytical & other abilities and General Knowledge

Part II – Proficiency in the related subjects.

iv) Test for M.A. in Hindi

The Test for M.A. in Hindi (Test 301) comprises 150 objective type questions at a level answerable by candidates with Hindi as a second language at degree level. It is open to all candidates, subject to their satisfying the respective eligibility criteria prescribed.

Applicants for M.A. in Hindi, irrespective of whether or not they are applicants for any other programme, have to necessarily take the Test 301.

v) Aptitude Test for Management Programme MBA (Full Time) / (Part Time), MBA (International Business) & M.B.A. (Travel & Tourism)

The aptitude Test for MBA (F.T.) / (P.T.), MBA (International Business) & M.B.A. (Travel & Tourism) (Test 401) comprises 150 objective type questions designed to test proficiency in English Language, S.S.L.C. level mathematics, reasoning ability and general awareness in the area of Business/ Economics/ Commerce. Applicants for any of the above programmes, irrespective of whether or not they are applicants for any other programme, have to necessarily take the Test 401.

vi) Aptitude Test for MCA

The aptitude Test for MCA (Test 501) comprises 150 objective type questions designed to test the aptitude and capability of an applicant for pursuing the M.C.A programme. About 50% of the questions will be from Mathematics covering areas of Engineering Mathematics / B.Sc. subsidiary level Mathematics while the remaining questions will be to test the ability of the candidate in logical reasoning based on pictures, geometrical figures, patterns of words, Number Sequence, Set Theory, Logic decoding etc. Applicants for MCA, irrespective of whether or not they are applicants for any other programme, have to necessarily take the Test 501.

vii) Tests for PG Programmes

The Test for PG Programmes (Tests 601– 615) comprises 150 objective type questions designed to test the proficiency of the applicant at the Graduate level in the subject of his / her choice. Applicants for PG programmes (other than M.A. Hindi) may choose and specify any one of the 14 subjects (listed with Code Numbers 601 to 615) relevant to the programme for which the admission is sought. The table, Selection of Test Subjects – CAT for PG Programmes, is a quick reference chart of the subjects in

which the CAT for PG programmes is conducted and the programmes for which admission can be sought by taking the Test in a particular subject. This subject could be either the main subject of the qualifying degree examination of the applicant or the subject nearest to the main subject, provided it meets the eligibility criteria prescribed for the programmes chosen.

viii) Test for .M.A. Applied Economics

The Test for M.A. Applied Economics (Test 616) comprises 150 objective type questions designed to test the proficiency of the applicant at the Graduate level in Economics. (50 % of the questions will be from Economics, 15% from Simple Mathematics, 15% from Statistics and 20% General awareness.)

ix) Test in Engineering Science (Test 607)

This is for testing the aptitude of an applicant for admission to the interdisciplinary programme M.Sc. Environmental Technology (Stream 1).

x) Test in Life Science

This is for testing the subject knowledge as well as aptitude of an applicant for admission to the interdisciplinary programmes of M.Sc. Biotechnology and M.Sc. Environmental Technology (Stream II). Questions will therefore be from areas in Life Science / Medical Science / Agricultural Science which a graduate in any of the above branches of study should be able to answer.

(2). DEPARTMENT ADMISSION TEST (DAT)

Applicants for all Certificate / Diploma programmes, MA Translation (German/Russian), all M. Tech. / M. Phil. and Ph. D programmes will be required to appear for the Departmental Admission Test conducted in the respective Department / School of *CUSAT* on dates to be announced later and to be intimated individually to the applicants.

Procedures specific to M. Tech. and Ph. D programmes are outlined below.

(a). M. Tech. Programmes

Rank lists for M. Tech. programmes are prepared on the basis of the valid GATE Score. When the GATE Scores of two or more candidates are equal, the marks scored at the qualifying examination are reckoned as the tie-breaker. Seats set apart for candidates from different disciplines in interdisciplinary M. Tech. programmes will be allotted on the basis of their GATE Scores in the respective disciplines.

Candidates without GATE Score will be considered only if sufficient number of applicants with valid GATE Score are not available. Candidates, including sponsored ones, not possessing a valid GATE Score and seeking admission to M.Tech. programmes where a valid GATE Score is necessary, will have to appear for a Departmental Admission Test (DAT) to be conducted in Cochin by the Department/ School concerned, unless otherwise specified.

Depending upon the combination of programmes an applicant chooses, he / she may have to appear for the CAT (and / or Group Discussion/ Interview) and the DAT. Candidates are advised to read carefully the rules in this regard and appear for such examinations that would make them eligible for the programmes they prefer to get admitted to. No representations for redressal of grievances caused by acts of omission or non -observance of rules by the candidates in this regard will be entertained by the University.

Exception: For admission to M.Tech in Marine Bio-Technology, GATE score is not considered. Selection of candidates is done by Jawaharlal Nehru University (JNU) on behalf of Department of Bio-Technology, Government of India through a National Test along with all such examinations conducted by the JNU. For details visit JNU website: www.jnu.ac.in. For details on (NCAAH) please visit www.ncaah.org

(b). M.Phil. Programmes

M.Phil Programmes are offered by the following Schools/Departments of *CUSAT*. Candidates intending to apply for M.Phil courses are requested to contact the respective Departments/ Schools directly.

Sl.No	Departments/Schools	M.PhilProgrammes
1	Applied Chemistry	Chemistry
2	Chemical Oceanography	Marine Chemistry
3	Industrial Fisheries	Fisheries Science
4	Mathematics	Mathematics
5	Management Studies	Commerce
6	Physics	Physics
7	Applied Economics	Applied Economics
8	Marine Biology, Micro Biology & Biochemistry	Life Science
9	Hindi	Hindi

(c). Ph. D Programmes

Candidates for Ph. D. programmes are advised to ascertain the areas of research and the availability of vacancies under their proposed Supervising Guides in the University Departments / Schools or Recognized Institutions before obtaining the application Forms. Candidates may note that the consent of Supervising Guide is a prerequisite for submitting the duly filled-up application form.

A candidate who wishes to pursue a programme of study and research leading to the Degree of Doctor of Philosophy of the University will be required to seek registration to the programme as a full-time / part-time research student in a University Department / Recognized Institution under an appropriate Faculty. In the case of a Recognized Institution, part-time registration would be granted only for permanent employees of that institution. Candidates, who are working in research projects relevant to the research topic that has been taken up by a Department or by a Recognized Institution and funded by internal or external agencies, will be deemed to be full-time students if they are admitted to the Ph.D. programme. Candidates who are applying for registration, as part-time students shall be considered for registration only where the Research Committee is convinced that effective supervision can be ensured.

Eligibility for Admission to the Ph.D Programme

- 1) Candidates seeking registration to the Ph.D programme shall hold a Master's Degree from a recognized University with 55% marks in the qualifying examination, or a CGPA of 6.0 in the 10 point scale. **A candidate belonging to SC/ST community is eligible for concession up to 10% marks for admission provided that he/she has a pass in the qualifying examination.**
- 2) Candidates seeking registration shall have passed the Departmental Admission Test and ranked as per the norms laid down in the regulation.
- 3) Candidates who possess national/state research fellowship with valid scores, with committed financial assistance at the time of seeking admission, in any of the national/state level eligibility tests conducted by the agencies or by industries so recognized by the University for the purpose, are exempted from provision (ii) above.
- 4) Teachers of Universities/Colleges in Kerala and scientists in National Level Research Laboratories, who have put in five years of continuous service, and foreign nationals who have been sponsored under a scholarship scheme by the Government of India for undergoing Ph.D Programme in India, are exempted from provision (ii) above.

Admission

- 1) The Departmental Admission Test (DAT) shall have two parts.
 - a) Written test & (b) Interview

2) Candidates who have scored at least 50% marks in the written examination alone will be eligible to be ranked for admission.

For PH.D Programmes Candidates belonging to SC/ST communities are entitled to a concession of 5% marks in the written examination of the DAT.

3) The weightage for written test and interview for ranking will be as follows.

a. Marks obtained in the Master's Degree Level	30%
b. Marks obtained in the written test	50%
c. Marks obtained in the interview	<u>20%</u>
Total	100%

Interview for Admission

All candidates seeking admission to the PhD Programme who have passed the admission test with a minimum of 50% score, or who are exempted from the admission test under clause 2(c) (iii) above, shall be required to present themselves for an interview with the Research Committee or with a Sub Committee appointed by it. It shall also scrutinize the academic records of the candidate, the research proposal made by him/her in the application, the long term plan of the academic work to be undertaken by the candidate and recommend remedial courses to be taken by the candidate to complete the requirements of the course work.

3. LATERAL ENTRY TEST (LET)

Lateral Entry to III semester B.Tech Programme

The Test shall be of 3 hours duration as per the syllabus given below.

The marks allotted shall be in the following proportions:

1. English	10
2. Mathematics	25
3. Engineering Mechanics	20
4. Engineering Graphics	20
5. General Engineering	25