

## ACADEMIC PROGRAMMES\*

### COCHIN UNIVERSITY COLLEGE OF ENGINEERING, KUTTANAD

Programme Name and duration	Eligibility Criteria for Admission	Nature of Programme	Intake
B.Tech. Civil Engg. (8 Semesters)	Pass in Plus Two examination of the State of Kerala with Mathematics, Physics and Chemistry as optional subjects or any other examination accepted as equivalent thereto securing a minimum of 50% marks in Mathematics and 50% marks in Mathematics, Physics and Chemistry put together	Full-time(Self-financing)	40
B.Tech. Comp. Science & Engg.(8 Semesters)		Full-Time (Self-financing)	60
B.Tech. Elect. & Electronics Engg.(8 Semesters)		Full-Time (Self-financing)	60
B.Tech. Electronics & Comm. Engg.(8 Semesters)		Full-Time (Self-financing)	60
B.Tech. Inform.Tech (8 Semesters)		Full-Time (Self-financing)	60
B.Tech. Mech. Engg(8 Semesters)		Full-Time (Self-financing)	60

### SCHOOL OF ENGINEERING, THRIKKAKARA

B.Tech. Civil Engg. (8 Semesters)	Pass in the Plus Two Examination of the State of Kerala with Mathematics, Physics and Chemistry as optional subjects or any other examination accepted as equivalent thereto securing a minimum of 50% marks in Mathematics and 50% marks in Mathematics, Physics and Chemistry put together.	Full-time(Self-financing)	90
B.Tech. Comp. Sci. & Engg. (8 Semesters)		Full-time(Self-financing)	90
B.Tech. Elect. & Electronics Engg. (8 Semesters)		Full-time (Self-financing)	60
B.Tech. Electronics & Commn. Engg. (8 Semesters)		Full-time (Self-financing)	90
B.Tech. Information Technology (8 Semesters)		Full-time (Self-financing)	90
B.Tech. Mechanical. Engg (8 Semesters)		Full-time (Self-financing)	90
B. Tech. Safety & Fire Engg. (8 Semesters)		Full-time(Self-financing)	30
B.Tech Marine Engineering(Residential Programme) (8 Semester**) ** 1 Semester will be afloat training with a fee of Rs.50000/- (See Page 61)	Pass in the Plus Two Examination of the State of Kerala or any other examinations accepted as equivalent thereto with Mathematics, Physics, Chemistry and English as separate subjects with a PCM average of not less than 60% marks. Should have passed English at 10th and 12th standards with 50% marks. Vocational/ Diploma students are not eligible to apply. ***	Full-time (Self-financing)	30

\*\*\*Maximum age - 20 years - as on 1st October of the year of admission

M. Tech. Civil. Engg. (5 Semesters)	B.Tech/ B.Sc. (Engg.) or equivalent degree in the respective branch (candidates who have taken GRADE/IETE/AMIE Chem. Engg. or AMII with a pass in section A & B are also eligible for admission).	Part-Time (Cost sharing)	15
M.Tech.Chemical Engineering (5 Semesters)	(a) Should have a basic degree in Science or diploma in engg. Such candidates shall be required to undergo a make-up course in laboratory work before being admitted to the M.Tech Degree. This shall consist of two practical courses and only those candidates who secure not less than 50% marks in the examination conducted by the department for each of the two practical courses shall be eligible for the M.Tech. Programmes.	Part-Time (Cost sharing)	15
M. Tech. Mechanical Engg. (5 Semesters)	(b) Should have two years experience after obtaining the basic degree. GRADE/IETE/AMII/ AMIE Chem. Engg. should have seven years experience.  (c) Open seats will be allotted on the basis of Gate Score and marks obtained in the qualifying examination.	Part-Time (Cost sharing)	15
M.E. by Research (a) 5 Semesters	Bachelor's degree in appropriate branch of engineering from a recognized university with 60% marks in the qualifying examination. Candidates belonging to SC/ST communities shall be eligible for concession upto 5% in the minimum marks. Candidates shall have passed the Departmental Admission Test conducted by the School with 50% marks. Admission shall be based on the marks in the qualifying examination, Departmental admission test, interview and experience. Application for admission shall be Submitted along with the consent of the Supervising Guide.	Part-Time (Cost sharing)	Variable
(b) 4 Semesters		Full- Time (Cost sharing)	Variable
Ph.D.			

### SCHOOL OF ENVIRONMENTAL STUDIES

M.Sc. Environmental Tech. Stream 1. Env. Engg. (4 Semesters)	Graduate in Chemistry with Physics and Mathematics as subsidiaries or graduate in Engg. (Civil/Public Health/Environmental or Chemical) with 55% marks.	Regular- day	6
Stream 2. Env. Biotech. (4 Semesters)	Graduates in Life Sciences/Environmental Sciences/ Zoology/Botany/Microbiology with 55% marks.	Regular- day	6
Ph. D.			

### DEPARTMENT OF CULTURE AND HERITAGE

Certificate Programmes in French / German/Japanese/ Russian (1 year)	Pass in Plus Two or equivalent. Previous knowledge of the language is not essential.	Part-Time	25
Diploma in Communicative English(1 year)	Bachelor's Degree in any discipline or any other examination recognized as equivalent thereto with English as one of the subjects of study from a University.	Part-time	25
Diploma Programmes in French/ German/ Japanese/ Russian(1 year)	Pass in Plus Two or equivalent and Certificate level knowledge in the language concerned.	Part-time	10
Diploma in Functional Arabic(1 year)	Pass in Plus Two or equivalent. Previous knowledge in the language is not essential.	Part-time	20
Integrated Diploma in French/ German/ Japanese/ Russian(1 year) (1 year)	Pass in Plus Two or equivalent. Previous knowledge in the language is not essential.	Part-time	20
Integrated Diploma in Italian(1 year)	Pass in Plus Two or equivalent. Previous knowledge in the language is not essential.	Part-Time	25
M.A. Translation-German/ Russian(4 semesters)	Bachelor's Degree of any University recognized by CUSAT and Diploma level knowledge in the language concerned.	Regular Full Time	5
Ph. D.			

### DEPARTMENT OF HINDI

M.A. Hindi Language and Literature (4 Semesters)	B.A./ B.Sc. Degree with Hindi as a subject of study with at least 45% marks in Hindi.	Regular-Day	28
M.Phil. Hindi (2 Semesters)	Master's Degree in Hindi with at least 50% marks.	Regular-Day	10
P.G. Diploma in Translation,& Functional Hindi (1 year)	Bachelor's Degree with Hindi as one of the subjects.	Part-Time	28
Ph.D			

### SCHOOL OF LEGAL STUDIES

LL.B. (10 Semesters) (Hons.)	i) Pass in Plus 2 examination with 60% marks in Science/Commerce group or 55% marks in Arts/Humanities.ii) Should not have completed 21 years of age on January 1st of the year of admission.	Regular-Day (Cost-sharing)	20
LL.M. (4 Semesters)	Bachelor's Degree in Law with at least 45% marks.	Regular-Day	36
Ph. D.			

### SCHOOL OF MARINE SCIENCES

P.G. Diploma in Coastal Zone Management (4 Semesters)	Bachelor's Degree in Engineering/Masters Degree in Science from CUSAT or any other University recognised by CUSAT with at least 55% marks.	Regular day	16
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### SCHOOL OF INDUSTRIAL FISHERIES

M.Sc., Industrial Fisheries(4 Semesters)	Bachelor's Degree in Fisheries / Zoology/ Botany with atleast 55% marks in the optional subjects. Bachelor's Degree in Fisheries includes Industrial Fisheries/ Aqua-culture/Fishery Science/Industrial Fish and Fisheries/B.FSc(Nautical Science)	Regular-Day	16
Ph.D			

### DEPARTMENT OF ATMOSPHERIC SCIENCES

M.Sc. Meteorology (4 Semesters)	B.Sc. Degree with Physics/Mathematics as the main subject with 55% marks. Those with Mathematics as the main subject should have studied Physics as one of the subsidiaries and vice-versa. i) M.Sc. degree or its equivalent in Meteorology/ Oceanography/ Mathematics/ Physics/ Space Physics with a first class (60%) marks from any recognised University or Institution. ii) A valid GATE score or a pass in the Joint UGC-CSIR test (NET) for JRF	Regular-Day	12
M.Tech. Atmospheric Science (4 Semesters)		Regular-Day	10
Ph.D			

### DEPARTMENT OF CHEMICAL OCEANOGRAPHY

M.Sc. Hydrochemistry (4 Semesters)	B.Sc. Degree in Chemistry with Mathematics and Physics as subsidiaries or B.Sc. Degree of any University in Kerala with Polymer Chemistry / Industrial Chemistry / Petrochemicals / Environment and Water Management as the main subject and Mathematics and Physics/Computer Science as subsidiaries, with a minimum of 55% marks in the respective main subject. Master's Degree in Chemistry with 50% marks.	Regular-Day	12
M.Phil. Chemical Oceanography (2 Semesters)		Regular-Day	6
Ph.D			

### DEPARTMENT OF MARINE BIOLOGY, MICROBIOLOGY & BIOCHEMISTRY

M.Sc. Marine Biology (4 Semesters)	B.Sc. degree with any branch of Life Sciences such as Aqua culture, Biochemistry, Biotechnology, Botany, Microbiology, Zoology etc. as a main subject or B.Sc. degree in Fishery Science with at least 55% marks in the optional subjects. Master's Degree in Marine Biology/ Zoology/ any branch of Life Science such as Aquatic Biology and Fisheries, Biochemistry, Biotechnology, Botany, Fishery Science with 60% marks.	Regular-day	19
M.Phil. Life Sciences (2 Semesters)		Regular-day	6
Ph. D.			

### DEPARTMENT OF MARINE GEOLOGY AND GEOPHYSICS

M.Sc. Marine Geology (4 Semesters)	B.Sc. Degree in Geology/Mathematics/Physics/Chemistry with 55% aggregate marks in optionals. B. Sc Degree with at least 55% aggregate marks with (a) Geology main with Mathematics and Physics or Chemistry as subsidiaries; (b) Physics main with Mathematics and Geology or Chemistry or Electronics as subsidiaries; (c) Mathematics main with Physics and Geology or Chemistry as subsidiaries.	Regular-day	10
M.Sc. Marine Geophysics (4 Semesters)		Regular-day	10
Ph.D			

### DEPARTMENT OF PHYSICAL OCEANOGRAPHY

M.Sc. Oceanography (4 Semesters)	B.Sc. Degree with Physics/Mathematics as the main subject with 55% marks. Those with Mathematics as the main subject should have studied Physics as one of the subsidiaries and vice-versa. i) M.Sc. Degree in Oceanography/ Physics/Marine Geology/ Meteorology/ Marine Geophysics/ Environmental Sciences or M.Sc. (Tech.) Degree in Marine Geophysics or B.Tech or equivalent Degree /AMIE in Civil engineering/ Environmental Sciences with 60% marks from any recognised university or institution. ii) A valid GATE score with any of the subjects mentioned above as the second paper.	Regular-day	12
M.Tech. Ocean Technology (4 Semesters)		Regular-day	8
Ph.D			

**DEPARTMENT OF APPLIED CHEMISTRY**

M.Sc. Applied Chemistry (4 Semesters)	B.Sc. Degree with Chemistry/Polymer Chemistry/ Environmental Chemistry/ Industrial Chemistry/ Petrochemicals (main) with Mathematics as one of the subsidiary subjects with at least 55% marks in the main subject.	Regular-day	12
M.Phil. Chemistry (2 Semesters)	M.Sc. Degree in Chemistry with at least 50% marks.	Regular-day	9
M.Tech.Industrial Catalysis (4 Semesters)	M.Sc. Degree in (Chemistry /Applied Chemistry) or any other degree recognised as equivalent with at least 1st class (60%) marks from any recognised university or institution with a valid GATE score.	Regular-day	10
Ph.D			

**DEPARTMENT OF BIOTECHNOLOGY**

M.Sc. Biotechnology (4 Semesters)	Bachelor's Degree in any branch of Life Sciences including Agricultural and Medical Sciences/Chemical Sciences / Chemical Engineering with minimum of 55% marks in aggregate	Regular-day	12
Ph.D			

**DEPARTMENT OF MATHEMATICS**

M.Sc. Mathematics (4 Semesters)	B.Sc. Degree with Mathematics main with at least 55% marks for optional subjects taken together.	Regular-day	30
M.Sc. (Operations Res. & Computer Applications) (4 Semesters) (in alternate years)	B.Sc. Degree in Mathematics or Physics or Statistics with Mathematics as subsidiary with not less than 55% marks in the main or subsidiary subjects or B.Sc. Engineering with at least 55% marks.	Regular-day	15
M.Phil (Mathematics)(2 Sem)	M. Sc degree in Mathematics with at least 50% Marks	Regular-day	10
Ph.D			

**DEPARTMENT OF PHYSICS**

M.Sc. Physics (4 Semesters)	B.Sc. Degree with Physics main and Mathematics subsidiary with at least 55% marks in Physics.	Regular-day	25
M.Phil. Physics (2 Semesters)	M.Sc. Degree in Physics with at least 50% marks.	Regular-day	8
Ph.D.			

**DEPARTMENT OF STATISTICS**

M.Sc. Statistics(4 Semesters)	B.Sc. Degree in Mathematics or Statistics main with at least 55% marks for optional subjects taken together.	Regular-day	15
M.Tech.Engineering Statistics (4 Semesters)	B.Tech or equivalent degree or AMIE in any discipline with a first class (60%) from any recognised university or institution with valid GATE score.	Regular-day	8
Ph.D.			

**DEPARTMENT OF APPLIED ECONOMICS**

M.B.E. (Master of Business Economics) (4 Semesters)	Bachelor's Degree or Equivalent in any subject including Engineering, Technology, Agriculture and Medicine of the Universities in Kerala or any other Universities in India or abroad (accepted by the University as equivalent thereto) with a minimum of 55% aggregate marks.	Regular-day	15
M.Phil. Applied Economics (2 Semesters)	Master's Degree in Economics with at least 50% aggregate marks.	Regular-Day	10
Ph.D			

**CENTRE FOR RURAL DEVELOPMENT AND APPROPRIATE TECHNOLOGY (RUDAT)**

Ph.D			
<b>SCHOOL OF MANAGEMENT STUDIES</b>			
M.B.A. (Full-time)(4 Semesters)	Bachelor's Degree in any subject with 50% marks in aggregate.	Regular-Day	50
M.B.A. (Part-time)(6 Semesters)	i) Bachelor's Degree in any subject with 50% marks in aggregate. ii) 50% of the seats are reserved for candidates having 3 years of supervisory/ executive experience after taking the degree. iii) In the absence of such candidates as mentioned in (ii) vacancies will be offered to any other candidates satisfying eligibility as per (i).	Part-time	30
M.I.B. (Master of International Business) (4 Semesters)	Bachelor's Degree in any discipline recognized by the University with 50% marks in aggregate.	Regular-Day	30
M.B.A (Travel & Tourism) (4 Semesters)	Bachelor's Degree in any subject with 50% marks in aggregate.	Regular-Self-Financing	30
M.Phil. (Commerce)(2 Semesters)	Master's Degree in Commerce with at least 50% marks	Regular-Day	6
Ph.D			

**CENTRE OF EXCELLENCE IN LASER AND OPTOELECTRONIC SCIENCES (CELOS)**

5 year Integrated M. Sc. in Photonics* (10 Semesters)	Pass in Plus Two examination of the State of Kerala with Mathematics, Physics and Chemistry as optional subjects or any other examination accepted as equivalent thereto securing a minimum of 50% marks in Mathematics and 50% marks in Mathematics, Physics and Chemistry put together.*	Full-time	20
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\* The minimum eligibility for SEBC is 45% for Mathematics and 45% for Mathematics, Physics and Chemistry put together.

**COCHIN UNIVERSITY COLLEGE OF ENGINEERING, KUTTANAD**

M.C.A. (6 Semesters)	Any graduate with Mathematics as one of the main or subsidiary subjects or graduate in Electronics / Computer Science / Computer Applications / Engineering / Technology with aggregate 55% marks in all subjects other than languages and humanities.	Full Time (Cost-sharing)	30
		Full Time (Regular)	30

**DEPARTMENT OF ELECTRONICS**

M. Tech. Electronics (with specialization in Digital Electronics, Microwave & Radar Electronics)(4 Semesters)	i) B.Tech or equivalent Degree/AMIE/AMIETE in Elec.& Commn. Engg/Elec. Engg/Elec. and Instrumentation or M.Sc. Degree in Elec./Physics (with Electronics as specialization) with a First class (60% marks) from any recognized University or institution. ii) A valid GATE score in Electronics/ Elec. & Communication. Engineering. iii) If sufficient number of candidates are not available in category ii) above, candidates with GATE score in Instrumentation, Elec. & Electron. Engg, Electrical Engg or Physics will be considered. (Sponsored & SC/ST Candidates may have relaxation to this requirement, but they have to appear for DAT)	Regular-Day	20
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M.Sc. Electronic Science (with specialization in Artificial Intelligence, Robotics Microwave Electronics and Computer Technology) (4 Semesters)	i) First Class B. Sc / B.Sc. (Hons.) degree (with not less than 60% aggregate marks) in Electronics, Computer Science, or Physics (with Electronics).ii) SC/ST candidates need only have pass minimum for the qualifying degree. Candidates with higher degrees are not eligible for admission.	Regular-Day	25
Ph.D			

#### DEPARTMENT OF INSTRUMENTATION

B. Tech. Instrumentation* (8 Semesters)	Pass in Plus Two examination with Mathematics, Physics and Chemistry as optional subjects or any other examination accepted as equivalent thereto securing a minimum of 60% marks in Mathematics, Physics and Chemistry put together, with at least 55% in Mathematics separately.*	Regular-Day	28
Ph.D			

- The minimum eligibility for SEBC belonging to Kerala State is 55% for Mathematics, Physics and Chemistry put together with atleast 50% for Mathematics

#### DEPARTMENT OF POLYMER SCIENCE & RUBBER TECHNOLOGY

B. Tech. Polymer Science & Rubber Technology (8 Semesters)	Pass in Plus Two examination of the State of Kerala with Mathematics, Physics and Chemistry as optional subjects or any other examination accepted as equivalent thereto securing a minimum of 50% marks in Mathematics and 50% marks in Mathematics, Physics and Chemistry put together.	Regular -Day	20
M. Tech. Polymer Technology (4 Semesters)**	1 B.Tech. or equivalent degree/AMIE in Polymer Science and Rubber Technology / Chemical Engg. / Technology or M.Sc Polymer Chemistry / M.Sc. Chemistry with Polymer Chemistry specialization with a First Class(60%)marks from any recognized University or Institution.2. A valid GATE score.	Regular-Day	10
Ph.D			

#### DEPARTMENT OF SHIP TECHNOLOGY

B. Tech. Naval Arch. & Ship Building*(8 Semesters)	Should have passed Plus Two (10+2) examination conducted in Kerala or the examination of any other University / Board accepted by the Syndicate of the University as equivalent thereto in first class with Mathematics, Physics and Chemistry as subjects of study. The candidates shall have secured a minimum of 50% marks in Mathematics as well as for Mathematics, Physics and Chemistry put together.*	Regular-Day	24
M.Tech. Comp. Aided Structural Analysis & Design (4 Semesters)**	i) B.Tech. or equivalent degree in Naval Architecture and Ship Building / Civil Engineering / Mechanical Engineering with a First class (60%) marks from any recognized University or institution ii) A valid GATE Score	Cost-sharing	15
Ph.D			

\* The minimum eligibility for SEBC(belonging to Kerala State) is 45% for Mathematics and 45% for Mathematics, Physics and Chemistry put together.

\*\* If sufficient number of candidates with valid GATE score are not available the remaining seats will be filled on the basis of DAT

### INTERNATIONAL SCHOOL OF PHOTONICS

M.Tech. Opto-Electronics and Laser Technology(4 Semesters)	Master's degree in Physics / Electronics/Photonics or B.Tech. /B.E in Electronics and Communication Engineering / Electronics Engineering / Electrical Engineering/Electrical and Electronics Engineering with a first class (60%) from any recognised university or institution and a valid GATE score (in the concerned branch of study) or Instrumentation or pass in DAT if sufficient number of GATE score holders are not available.	Regular-Day	10
Ph. D.			

### DEPARTMENT OF COMPUTER APPLICATIONS

M.C.A. (a) (6 Semesters)	Any graduate with Mathematics as one of the main or subsidiary subjects or graduate in Electronics / Computer Science / Computer Applications / Engineering / Technology with aggregate 55% marks in all subjects other than languages and humanities	(a) Regular	30
(b) (6 Semesters)		(b)Cost-sharing	30
Ph. D.			

### DEPARTMENT OF COMPUTER SCIENCE

M.Tech. Computer and Information Science (4 Semesters)	i) B. Tech or equivalent degree in any discipline/AMIETE/ AMIE or M.Sc. in Physics with Electronics as special subject or M.Sc. in Mathematics with a First Class (60%) marks from any recognised University or institution.ii) A valid GATE score.	Regular-Day	14
M.Tech. Software Engg. (4 Semesters)	i) B.Tech or equivalent degree or AMIE /AMIETE in Computer Science/Information Technology or M.Sc in Computer Software/Operational Research and Computer Applications or MCA with a First Class (60%) marks from any recognised University or institution. ii) A valid GATE score	Regular-Day	13
Ph. D			

\*Note:

- Degrees obtained through distance education programmes other than IGNOU are not recognized as per the Regulations of the University currently in force.
- The University reserves the right to withhold notification of any / all academic programmes listed above. Applicants are therefore advised to consult the Notification issued by the University to confirm the programmes notified for admission in the respective academic year.
- The University also reserves the right to amend the intake capacity of any or all of the academic programmes from time to time.4. The University offers provision for lateral entry of Engineering Diploma holders directly into the third Semester of B.Tech. Engineering Programmes.

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The University reserves the right to amend, alter and interpret any of the rules / regulations relating to programmes of study, eligibility and admission criteria, fee structure and other relevant matters mentioned in this diary. This part of academic programmes is strictly based on the Academic Hand Book 2006. Changes, if any, may be clarified with the IRAA Unit

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