

UNIVERSITY OF CALICUT

DIRECTORATE OF ADMISSION

167376/DOA-ASST-3/2016/Admn

26.05.2020

Notification for admission to M.Tech Nanoscience and Technology (2020-21)

Applications are invited from qualified students for admission to M.Tech Nanoscience and Technology (Regular) programme (Four Semester, Intake 10 numbers) conducted by the Department of Nanoscience & Technology, University of Calicut under Faculty of Science.

I. Eligibility for Admission : BE/B.Tech in Nanoscience and Technology, Electronics, Electrical, Mechanical, Chemical, Industrial, Engineering physics, Metallurgy and Materials engineering, Biotechnology and Biomedical Engineering, M.Sc. in Physics/ Applied Physics/ Electronics/ Photonics/ Materials Science/ Chemistry/ Applied Chemistry/ Polymer Chemistry/or an equivalent post graduate degree with Physics, Chemistry or Mathematics as one of the subsidiaries at the undergraduate level. A Minimum of 60 % aggregate marks in the qualifying examination is essential for the eligibility for admission to this program.

II. Admission procedure: Admission to this course will be based on the marks secured in entrance examination conducted by the University. Syllabus for entrance examination will cover the basic principles related to subject areas Quantum mechanics, Solid State Physics, Thermal Physics, Mechanics, Physical Chemistry, Organic Chemistry, Polymer Chemistry, Introductory Nanoscience and Electronics.

Example: (Semiconductor, Rectifiers, Transistors, MOSFET, JFET, Integrated circuits, Digital electronics, Logic gates. Radioactive decay, Photo-electric effect, self inductance, LCR circuit, Tangent galvanometer, Modulation, Matrix. Electronic effect (resonance, inductive, hyper conjugation) and Steric effects and its applications (acid/base property). Optical Isomerism in organic compounds. Hydrocarbons, alkyl halides, alcohols, aldehydes, ketones, carboxylic acids, amines and their derivatives, Aromatic hydrocarbons, halides, nitro and amino compounds, phenols, diazonium salts, carboxylic acids. Amino acids, proteins, nucleic acids, lipids and carbohydrates. Basics of UV-Vis, IR and NMR spectroscopy, mass spectrometry)

III. PROCEDURE OF APPLICATION

1. Applications can be submitted online till **26.06.2020 midnight**. Candidates applying for M.Tech, Nanoscience and Technology course with entrance examination 2020 shall visit the University admission website www.cuonline.ac.in and access the Registration Link provided in the webpage and complete the registration in the following two steps:

2. First Step - CAP ID Creation : Candidate applying for M.Tech. Nanoscience and Technology Entrance 2020 shall initially create a CAP ID by providing the basic details using the "New User (Create CAP ID)" link provided in the registration page. After successful submission of the details, a CAP ID and Password will be sent to the registered mobile number instantly (Mobile number of students/parents/guardian only to be furnished).

3. Second Step - Completion of Registration and Making Payment: With the CAP ID and Password received in the registered mobile number, the candidate can login and fill the registration page by providing required data. Candidates shall take utmost care while selecting the reservation category during filling up of registration data. For completing the registration, candidate shall click on the "Finalise & Proceed to Payment" button and make payment.

4. Online Registration Fee

General	Rs 555/- (Rupees Five hundred and fifty five only)
SC/ST	Rs 280/- (Rupees Two hundred and eighty only)

5. During payment, the website will be redirected to the University of Calicut Instant Web Payment System (CUIWPS) page where the student can select the desired choice of payment. After successful payment, candidates can take the print out of application after re-login by using the CAP ID and Password provided earlier. (In case the payment fails, the candidate will have to re-login and do the payment procedure once again to complete the payment and obtain the print out of the application). Print out of the application will be provided only if the payment is successful.

6. Candidate's application will be considered complete only if he/she has completed the above mentioned steps and is holding a finalised printout showing approved stamp on the candidate's photo.

7. After completion of online registration, the candidate should take printout of the same and keep it with himself/herself. **DO NOT SEND HARD COPIES OF THE PRINT OUT OF ONLINE APPLICATION OR ANY OTHER DOCUMENT TO THE UNIVERSITY.** Hard copy of the online application along with supporting documents should be kept by the candidate and it must be submitted to the department at the time of admission. The CAP ID Number is mandatory for downloading hall tickets for the entrance examinations. This ID Number should also be kept and mentioned by the candidate in all future communications. **Candidates have to retain the CAP ID as well as the password for this purpose.**

8. HALL TICKETS FOR ENTRANCE EXAMINATION.

Candidates can download hall tickets for the entrance examination from www.cuonline.ac.in, 3 days before the date of entrance examination. No individual communication regarding entrance examination will be sent to the candidates. Candidates should go through the University Websites and the University Press release for the latest information.

IV. CONDITIONS AND GUIDELINES:-

1. **'Open All India Quota'** : 10% of sanctioned seats or 2 seats are created for the course in addition to the total sanctioned seats, earmarked as 'Open All India Quota' which is reserved for applicants who are natives of states other than Kerala subject to the following conditions. (U.O No: 3259/2020/Admn dated 11.03.2020)

1.1 If there are no applicants for 'Open All India Quota', the additionally created seats shall be cancelled .

1.2 Communal reservation shall not be made applicable for 'Open All India Quota'.

1.3 Applicants for 'Open All India Quota' shall have to produce a valid nativity certificate issued by competent authority concerned, at the time of admission.

1.4 Candidates under 'Open All India Quota' shall have to fullfill eligibility stipulated for General Category candidates for M.Tech, Nanoscience and Technology admission.

1.5 Candidates who take admission under 'Open All India Quota' shall submit qualifying Mark list/ Grade cards/ Certificates at the time of admission.

1.6 Candidates under 'Open All India Quota' are exempted from the entrance examinations. Their selection will be made on the basis of the merit of qualifying examination.

1.7 The fees applicable to general candidates are applicable to 'Open All India Quota' students.

2. The ethnic native Lakshadweep candidates are exempted from the entrance examinations based on the sponsorship letter from the Lakshadweep Administration, subject to eligibility (U.O. No:14933/2016/Admn dated 26.12.2016).

3. Apply online through the website www.cuonline.ac.in. (**Last date for remittance of registration fee : 26.06.2020**)

4. Mandatory Reservation Rules of Admission in the University Dept. is given in Annexure I.

5. Candidates coming under SC/ST/OEC/SEBC are not eligible for EBFC (Economically Backward among Forward Communities) reservation. Only the general category candidates belonging to the Forward communities, who are economically backward, are eligible for EBFC reservation. A community certificate obtained from the Revenue authorities along with the Below Poverty Line (BPL) Certificate obtained from the Local Self Government bodies should be produced by the candidates who wish to avail of reservation under EBFC category at the time of admission. Documents like ration card will not be accepted for availing reservation to this category.

6. Those who are awaiting results of the qualifying examination can also apply.

7. The Co-ordinator, Department of Nanoscience and Technology is authorized to conduct entrance examination and admission as per rules.

8. No memo will be sent to the candidates in respect of entrance examination, entrance examination result etc. Candidates shall update themselves with the University Website (www.cuonline.ac.in) and with the University Press releases for the latest information.

9. Tentative date of **Entrance examination is 07.07.2020**. Maximum effort will be made to stick to the scheduled date, but it is liable to change due to unavoidable circumstances.

10. The type of questions for entrance exam will be objective type and 1/3 marks will be deducted for each wrong answer.

11. All candidates including result awaiting students shall submit their Mark List/ Grade Card at the time of Admission (U.O No.16616/2019/Admn dated 25.11.2019).

12. **Claim for Communal reservation under 'Socially and Educationally Backward Classes' (SEBC):** Reservation of seats to the Socially and Educationally Backward Classes will be in accordance with the provisions contained in G.O. (P) 208/66/Edn. Dated 2.5.1966, and G.O. (P) 2/2017BCDD, Dated 8.3.2017 as amended from time to time. Candidates belonging to Ezhava, Muslim, Other Backward Hindus, Latin Catholic other than Anglo Indians and Other Backward Christian communities, claiming reservation under SEBC Quota should invariably produce both **community and non-creamy layer certificates** obtained from the Village Officer/Thahsildar and should be produced at the time of admission. Candidates whose annual family income is above the amount stipulated by the Govt. for this purpose from time to time are not eligible for reservation. The seats unavailed by SEBC category candidates will be allotted under open quota.

13. **Claim for Reservation under Scheduled Castes/Scheduled Tribes Quota:** Candidates claiming reservation under Scheduled Castes/ Scheduled Tribes quota should obtain the Caste/Community Certificate from the Tahsildar. The seats unavailed by the SC candidates will go to ST candidates and vice versa.

14. **Claim of OEC candidates against the un-availed seats of SC/ST candidates:** Other Eligible Community (OEC) candidates who claim allotment to the un-availed seats, if any, under SC/ST

quota should furnish Community and Income certificates obtained from the Village Officer concerned. Those OEC candidates whose annual family income is up to the amount stipulated by the Govt. for this purpose from time to time alone are eligible for such seats.

15. The date commencement of class will be **03.08.2020**.

16. No fees other than those prescribed by the University/Govt. shall be levied from the students. (U.O.No:520/2019/Admn dated 14.01.2019 & Circular No:1680/DOA-ASST-2/2015/Admn, dated 08.02.2019).

17. Fee Structure for M.Tech. Nanoscience & Technology programme in University Department is as follows:

SI No.	Item	Amount
1.	Tuition Fee	2760/- per semester
2.	Admission Fee	170/-
3.	Caution Deposit	1655/-
4.	Lab Fee	
	(a) Advanced Lab Fee (Except 4th Semester)	8270/- per semester
	(b) Project Fee (4th Semester only)	8270/-
5.	Special Fee	per year
	(a) Library Fee	115/-
	(b) Stationary Fee	60/-
	(c) Magazine Fee	115/-
	(d) Athletic Fee	115/-
	(e) Audio Visual Fee	35/-
	(f) Medical Inspection Fee	20/-
	(g) Calender Fee	40/-
	(h) Association Fee	60/-
	(i) Students Aid Fund Fee	15/-
	(j) Women Cell Fee	60/-
	(k) University Union Fee	85/-
	(l) Sports Affiliation Fee	280/-
	(m) Quasi University Fee	25/-
	(n) Departmental Union Fee	115/-

18. Persons with Disabilities who require Scribe for attending entrance examinations shall contact the department and obtain appropriate orders, prior to the entrance examination.

19. **Refund of fee collected:** The UGC guidelines for the refund of fees collected from the students at the time of admission, is shown below (as per U.O.No:11428/2018/Admn, dated 29.09.2018).

Sl No.	Percentage of Refund of Aggregate fees	Point of time when notice of withdrawal of admission is served to Heads of the Institutions
1	100%*	15 days before the formally-notified last date of admission
2	80%	Not more than 15 days after the formally-notified last date of admission
3	50%	More than 15 days but less than 30 days after formally-notified last date of admission
4	0%	More than 30 days after formally-notified last date of admission

* In the case of (i) in the table above, the HEI concerned shall deduct an amount not more than 10% of the aggregate fees as processing charges from the refundable amount.

Dr. Joshy C.L.

Registrar

Annexure I

University Teaching Departments

Sl. No	Seat Reservation	% of Reservation		
1	Open quota (On the basis of merit)	50%		
2	Socially and Educationally Backward Classes (SEBC)	20%		
	(a) ETB (EZ)			8%
	(b) Muslim (MU)			7%
	(c) Latin Catholic other than Anglo Indian/SIUC			1%
	(d) Other Backward Christians (OBX)			1%
	(e) Other Backward Hindus (OBH)	3%		
3	*Economically backward among forward communities (EBFC)	7.5 %		
4	Scheduled Castes/Scheduled Tribes :	22.5%		
	Scheduled Castes			15%
	Scheduled Tribes			7.5%

***For the limited purpose of reservation, under this category, candidates belonging to all those communities which do not enjoy communal reservation will be eligible. Candidates who wish to avail reservation under EBFC will have to produce at the time of admission the Certificate that they come Under the Below Poverty Line (BPL) category of forward communities, obtained from the local bodies concerned and community certificate from the village offices.**