



School of Engineering
Department of Chemical Engineering
Monsoon 2020
M.Tech. Admissions Announcement

The Department of Chemical Engineering in the School of Engineering at Shiv Nadar University, (SNU) invites applications for admissions to its M.Tech. program.

Objectives of the Programme

M. Tech program is designed to prepare students for more highly productive careers in academics and industry. Students are exposed to a wide range of core and elective courses with in-depth syllabi, combined with specialized research which culminates in a thesis. Such an excellent combination provides the students the breadth and depth knowledge necessary for pursuing highly productive careers in academics as well as in industry.

Specializations available in the department:

Process engineering and intensification, Bioenergy, Waste Water Treatment , Multiphase flows, Computational Fluid Dynamics, Microfluidics and Micro-reactors, Film formation in water based dispersions; Applications of Ionic Liquids in Chemical Industry, Reactive Separations, etc.

Programme Structure

Students entering this programme will need to complete 48 credits in 2 years that will comprise of coursework and a research thesis. The course work for M.Tech. in Chemical Engineering comprises of following components:

- a) Core Courses:** 18 credits
- b) Elective Courses:** 12 credits
- c) Thesis:** 18 credits.

Eligibility: 1. B.E/B. Tech. Degree in Chemical Engineering or related discipline such as Petroleum Engineering, Biochemical Engineering, Polymer Engineering, Chemical Technology etc. with overall marks of at least 60% (or minimum 6.5/10 CGPA). (See also Selection Process below.)

2. MSc (Physical Chemistry) with overall marks of at least 60% (or minimum 6.5/10 CGPA).

Final year students can apply while awaiting their results. Only students with valid GATE score or a cGPA ≥ 8.0 in their qualifying degree shall be eligible for financial assistantship.

Total Seats

Applications are sought for up to 15 seats in the department. Please note that the University reserves the right to admit lower number of students if the admissions committee does not find enough suitable candidates.

Selection Process: Eligibility criteria mentioned above is the minimum standards and applications not meeting the same will not be considered. Selections will be based on past academic performance and online interview. For Candidates with a CGPA ≥ 8.0 , GATE/NET score is not mandatory. Other candidates from any institution should have qualified GATE/NET in 2019/2020 and have score ≥ 75 . Please note that not all candidates meeting the minimum eligibility criteria may be shortlisted.

Sponsored candidates from industry are encouraged to apply. They should have at least 2 years' experience in the Job. GATE score is not mandatory for them.

Course structure for M.Tech. Programme

There will be some advance level courses in the core areas of chemical engineering and there will be some electives in various allied fields as given below. Not all courses will be offered each semester.

A) Core Courses

1. Advance Reaction Engineering
2. Advance Transport Phenomena
3. Advance Thermodynamics
4. Advanced separation Processes
5. Advance Process Control
6. Industrial waste management
7. Research Methodology

B) Elective Courses

8. Heterogeneous Catalysis
9. Colloids and Interfacial Engineering
10. Rheology of Complex Fluids
11. Polymer Dynamics
12. Advance Computational Fluid Dynamics
13. Mathematical Methods in Chemical Engineering

Fees: Information about the fee structure and the nature of assistantships are available on the website.

Financial Assistantship: University offers Teaching Assistantship that include a monthly stipend of ₹16,000 and waivers in tuition fees (90% waiver) and Hostel fees (70% waiver) to qualified students. The assistantship is available for applicants with valid GATE score or applicants with ≥ 8 cGPA in their qualifying degree in the absence of GATE score.

Other applicants not fulfilling the above criteria who have secured admission in the program shall not receive any financial assistantship.

Sponsored candidates shall not receive any financial assistantship. ***Sponsorship letter must be attached with the application or sent separately through e mail.***

Application Fees: Applicants need to pay a non-refundable application fees of Rs. 1200 (One Thousand Two Hundred Only) by credit/debit card on-line. Candidates may note that the University reserves the right to accept or reject any application based on its departmental screening criteria, hence all applications may not be shortlisted for written examination and/or interview. No requests for refund of the application fee shall be entertained under any circumstance.

Application Instructions:

All interested applicants shall apply online using the link given below. Please follow the instructions carefully.

- Fill all the mandatory fields
- Online upload of the following documents is required
 - Passport size color photograph
 - Current CV
 - All Mark Sheets/Degree Certificates (10th Standard onwards)
 - Standardized Examination Certificate- CSIR, UGC, GATE etc. (only If applicable)
- After online submission, print the completed form for your record. It need not be sent to the University.

Last date for the receipt of completed application form & application fee	July 15, 2020
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Interview	July 23 to 25, 2020
Declaration of Results	July 31, 2020

- **Please note that the application is not deemed complete until we receive all the necessary prescribed documents and application fees.**

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