

# SHIV NADAR UNIVERSITY

## School of Engineering Department of Civil Engineering

### M.Tech. Admissions Announcement (For 2017-18 Academic Year)

The Department of Civil Engineering in the School of Engineering at Shiv Nadar University invites applications for admissions to its M.Tech. program.

#### Program

The Department of Civil Engineering Department (CED), School of Engineering, Shiv Nadar University, offers a two-year Master of Technology (M.Tech.) degree program. No specific specialization is offered, instead, students are required to take six (6) advanced courses in the thrust areas of the department, and four (4) specialized courses offered as electives in their particular area of interest.

This M.Tech program is designed to produce high quality professionals who can meet industry requirements, including in leading research and development (R & D) organizations and academic institutions. Keeping in mind the breadth of the Civil Engineering domain, this program is focused towards building analytical capabilities and project-based learning to enable students to understand and resolve a wide variety of practical problems.

#### Eligibility

##### Level of Education of Applicant

First Division in B.E. / B.Tech. or equivalent in relevant discipline from a recognized Technical Institute or University. Final-year students can apply while awaiting their results. A good GATE/CSIR/UGC-NET score is strongly recommended, but not required.

OR

M.S./M.Sc. students are also eligible under special circumstances (if their academic training and research interests lie in Geoinformatics, Urbanization, Air/Water quality and related Environmental Engineering areas). For selection purposes, such candidates will be considered equivalent to B.E./B.Tech. candidates, must have good academic credentials, and strong aptitude for research. A good GATE/CSIR/UGC-NET score is strongly recommended, but not required.

#### Selection Process

Eligibility criteria mentioned above are minimum standards and applications not meeting the same will be rejected. Short-listed candidates will be required to demonstrate their knowledge and preparation through an on-site written test and interview, to be held in July 2017 (see *Application Deadlines* on page 5). The written tests and interviews will be conducted at the Shiv Nadar University (SNU) campus in Greater Noida, U.P. ***Please note that not all candidate meeting the minimum eligibility criteria may be shortlisted. The written test may be waived for candidates with excellent academic credentials, solely at the discretion of the department.***

## Subjects for Written Test

The following is an indicative list only: Solid Mechanics, Soil Mechanics & Foundation Engineering, Water Resources, Hydraulics, Transportation Engineering, Geomatics & GIS, Structural Engineering (including both steel and concrete design), Construction Materials, Sustainable Infrastructure

## M.Tech. Student Categories

- i) Regular (full-time): Students who work full-time for their M.Tech degrees and receive assistantships from Shiv Nadar University.
- ii) Sponsored (full-time): Students sponsored by a recognized R&D organisation, academic institution approved by UGC/AICTE, governmental organisation or industry. At the time of application, the candidate must have been an employee of his/her organisation for at least two (2) years, engaged in professional work in the discipline in which admission is sought. ***Sponsorship letter must be attached with the application.***

## Financial Assistance

Regular full-time M.Tech. students will receive teaching/research assistantships of ₹ 16,000 per month for 24 months.

Sponsored full-time M.Tech. candidates will not receive any teaching assistantship or stipend.

All full-time M.Tech. students, both regular and sponsored, will receive partial tuition and hostel room fee waivers amounting to a total of ₹ 14,500 per month for two years.

The assistantship and/or fee waivers will continue subject to satisfactory academic performance evaluated at the end of each semester. Satisfactory academic performance is defined as a minimum cumulative GPA of 7.0 on a scale of 10, plus any additional criteria which the department may define at the time of admission.

## Program and Admission Fees (Please see annex. 1 for more information)

Particulars	Fee	Remarks
Admission Fee (Non-refundable)	₹ 24,000	One-time fee payable at the time of admission in the first year of the M.Tech. program
Security Deposit (Refundable)	₹ 75,000	
<b>Sub-Total (One Time):</b>	<b>₹ 99,000</b>	
Tuition Fee (per year)	₹ 10,000	(after 90% waiver)
Hostel Fee – Single Room (per year)	₹ 36,000	(after 70% waiver)
<b>Sub-Total (per year):</b>	<b>₹ 46,000</b>	

## Note:

1. Teaching Assistantship is available to fulltime M.Tech. students. The sponsored candidates are not entitled for receiving Teaching Assistantship.
2. Waivers:
  - a. Waivers for tuition and hostel fees are for 2 years only. Beyond year 2, the student has to pay the tuition and hostel fees in full.
  - b. The Department reserves the right to reduce the waiver based on the academic credentials of the applicant.

3. Continuation of financial assistance is subject to satisfactory performance evaluated continuously, and compliance with all University regulations. The student is required to maintain a minimum CGPA of 7.00.
4. All charges are payable at the beginning of the Academic Year as per schedule announced separately.
5. Mess and Laundry Charges: In addition to the above, the use of mess and laundry services from the University authorized resident vendor is mandatory for all resident students irrespective of the degree program they are pursuing. We collect ₹21,500 per semester for mess and ₹ 2,250 per semester for laundry, which is pass through to the vendors. These charges are collected by the University at the beginning of every semester and paid to the vendor. These charges may vary from year to year based on inflation and the decisions of the relevant student body and Dean-Student Welfare, and will be communicated by Dean-Student Welfare at the beginning of each academic year.
6. Security deposit is refunded on Graduation after deduction of any recoveries.

### Application Fees

All applicants to the M.Tech. program are required to pay a non-refundable application fee of ₹ 1,200 (one thousand two hundred only) by credit/debit card, online, or by Demand Draft drawn in favour of “Shiv Nadar University” payable at NOIDA. Please note that the University reserves the right to accept or reject any application based on 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.

### Total Seats

Regular, full-time candidates are sought for a maximum of 10 seats in the department. Please note that the University reserves the right to admit a smaller number of students if the admissions committee does not find enough suitable candidates.

### M.Tech. Curriculum

Students must follow and satisfy the general course requirements for this program as listed in Table 1 below. Students are required to complete 55 semester credits for the program, with 30 of these credits coming from ten (10) courses in the first year. During their second year, in addition to a class on research methodology and a technical seminar, students have to conduct research and produce a thesis on a well-defined, focused problem.

**Table 1: Credit distribution for M.Tech. in Civil Engineering**

Semester	Credits	Course Credit Distribution	Course Description
First	15	5 courses of 3 credits each	<ul style="list-style-type: none"> <li>• Environmental Engineering</li> <li>• Geotechnical Engineering</li> <li>• Structural Engineering</li> <li>• Specialized/Elective course</li> <li>• Specialized/Elective course</li> </ul>
Second	15	5 courses of 3 credits each	<ul style="list-style-type: none"> <li>• Transportation Engineering</li> <li>• Water Resources Engineering</li> <li>• Urban Studies</li> <li>• Specialized/Elective course</li> </ul>

			<ul style="list-style-type: none"> <li>Specialized/Elective course</li> </ul>
Third	13	1 course on research methodology (3 credits), and M.Tech Thesis (10 credits)	<ul style="list-style-type: none"> <li>Research Methodology</li> <li>M.Tech Thesis</li> </ul>
Fourth	12	Technical seminar (2 credits), and M.Tech Thesis (10 credits)	<ul style="list-style-type: none"> <li>Technical seminar</li> <li>M.Tech Thesis</li> </ul>

### Research interests of faculty members

**Dr. Girish Agrawal** (*Geotechnical Engineering, Urban Studies, Transportation Law & Policy*): Geotechnical & environmental subsurface characterization, site hazard assessment, transportation law & policy with focus on pedestrian and NMT safety, sustainable infrastructure, urban studies.

**Dr. Gopal Das Singhal** (*Water Resource Engineering*): Water resources engineering, channel control, hydraulic engineering, river engineering.

**Dr. Gyan Vikash** (*Geotechnical & Structural Engineering*): Seismic soil structure interaction, constitutive modeling of granular materials, computational geomechanics.

**Dr. Jagbandhu Dixit** (*Earthquake & Structural Engineering*): Seismic hazard analysis, wave propagation, vibration control systems, soil-foundation-structure interaction.

**Dr. Rahul Goel** (*Transportation & Environmental Engineering*): Travel behavior linking with demographic characteristics, transport health impacts pollution, injuries and physical activity.

**Dr. Sailesh N. Behera** (*Environmental Engineering*): Air quality monitoring and modeling, water-air-soil interaction through experimental investigation, solid waste management.

**Dr. Sumedha Moharana** (*Structural Engineering*): Structural health monitoring, smart materials and structures, non-destructive evaluation and system identification.

**Dr. Dinesh Mohan** (*Transportation Safety & Biomechanics*): Transportation research (safety and pollution), human tolerance biomechanics, motor vehicle safety, road traffic injuries, and childhood injuries. Sustainable urban transport, safer cities and low carbon transport.

Also see: [http://snu.edu.in/engineering/engineering\\_civil\\_engineering\\_faculty.aspx](http://snu.edu.in/engineering/engineering_civil_engineering_faculty.aspx)

Faculty are also engaged in interdisciplinary work with research groups across schools at SNU.

### 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 (10<sup>th</sup> 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 except in the case mentioned below.
  - In case you have not been able to pay the application fee online and are sending it by a bank draft, please send it by speed post to the University at the address given below along with a copy of your application form.
  - Sponsored candidate need to send a sponsorship letter from their respective organizations.
  - Please write “M.Tech. application for CED–SNU Academic Year 2017-18” near the bottom left of the envelope containing the above documents.
- **Please note that the application is not deemed complete until we receive all the necessary prescribed documents and application fees.**

### Application Deadlines

Last date for the receipt of completed application form & application fee	June 9, 2017
Written Tests and Interview ( <i>subject to change</i> )	July 4 & 5, 2017
Declaration of Results ( <i>subject to change</i> )	July 10, 2017

Applications will be considered immediately upon receipt and shortlisted candidates will be notified by email well in advance so that they can plan their travel. Hence, candidates are urged to apply as early as possible.

Completed applications received after **June 9, 2017** will be considered on a case by case basis subject to availability of assistantships.

### Address for Speed Post

**Ms. Priya Nigam**  
 Administrative Assistant  
 Department of Civil Engineering  
 School of Engineering  
 Shiv Nadar University  
 P.O. - Shiv Nadar University  
 NH-91, Tehsil Dadri  
 District Gautam Buddha Nagar, UP-201314.

### About Shiv Nadar University

Shiv Nadar University ([www.snu.edu.in](http://www.snu.edu.in)) is a multi-disciplinary research university, established by the Shiv Nadar Foundation in 2011 through an act of the State of Uttar Pradesh, India. It is built on a spacious 256 acres, fully-residential campus in Greater Noida, U.P., on the outskirts of Delhi. The University is driven by its distinguished faculty in natural sciences, humanities and social sciences, engineering, management & entrepreneurship, communication, education, art and design.

### Annexure 1

#### Fees Structure 2017–19 (in ₹)

	Item	Year 1	Year 2	Full Program
(1)	<b>One time charges</b>			
	Admission Fee (Non-refundable)	₹ 24,000		₹ 24,000
	Security Deposit (Refundable)	₹ 75,000		₹ 75,000
(2)	<b>Recurring Charges</b>			
	Tuition Fee	₹ 1,00,000	₹ 1,00,000	₹ 2,00,000
	Hostel Fee (Single)	₹ 1,20,000	₹ 1,20,000	₹ 2,40,000
(3)	<b>Total Charges (1)+(2)</b>	₹ 3,19,000	₹ 2,20,000	₹ 5,39,000
(4)	<b>Financial Assistance</b>			
	Tuition Fee Waiver 90%	₹ 90,000	₹ 90,000	₹ 1,80,000
	Hostel Fee Waiver - 70%	₹ 84,000	₹ 84,000	₹ 1,68,000
(5)	<b>Net Payable (3)-(4)</b>	₹ 1,45,000	₹ 46,000	₹ 1,91,000
(5A)	<b>Cost Excl. Security Deposit</b>	₹ 70,000	₹ 46,000	₹ 1,16,000
(6)	<b>Teaching Assistantship</b> @₹16,000 per month (for 24 months max)	₹ 1,92,000	₹ 1,92,000	₹ 3,84,000

Note:

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2. Waivers
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  - b. The Department reserves the right to reduce the waiver based on the academic credentials of the applicant.
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