

SARDAR VALLABHBHAI  
NATIONAL INSTITUTE OF TECHNOLOGY,  
SURAT – 395 007

**SVNIT  
SURAT**



**ADMISSION INFORMATION BROCHURE**

***Ph. D.***  
***(Standing Advertisement)***

SARDAR VALLABHBHAI NATIONAL INSTITUTE  
OF TECHNOLOGY

SURAT – 395 007



ADMISSION INFORMATION BROCHURE

Ph. D.

[Standing Advertisement]

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## IMPORTANT instructions

### Ph. D. PROGRAMMES

#### [Standing Advertisement]

- (a) The application should be submitted only OFF LINE after downloading application form through institute web site [www.svnit.ac.in](http://www.svnit.ac.in) .The application form dully filled in all respect should be sent to ' The Registrar, SVNIT, Ichchhanath, Surat-395007'
- (b) Candidates must submit the application and processing fee, Rs.1000/ - (for Open/OBC) and Rs.500/-(SC/ST) in the form of demand draft drawn in favour of "Director, SVNIT Surat" payable at Surat and required certificates as envisaged in the information brochure at the time of application. The original documents are to be shown at the time of counseling, in the absence of these documents, candidates will not be interviewed. Application and processing fee will not be refundable.
- (b) The applicants can apply through out year after downloading the application form institute website. Those applications will be processed twice in a year. The applications received till June 30 and November 30 shall be processed in July and December respectively for admission in each year. The schedule for interviews of those applicants will be notified separately on institute website in the month of July and December.
- (c) No separate interview call letter shall be sent to individual candidates.
- (d) Policy of reservation will be adopted for the Admission as per the guide lines of the MHRD released from time to time.

## 1. THE INSTITUTE

The Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat is one of the twenty higher Institutes of Technology in the country set up with the objectives of making available facilities for higher education, research and training in various fields of Engineering and Technology.

The Institute campus is spread over 100 hectares of land on the Surat-Dumas Road. The Institute was established in 1961 as one of the Regional Engineering Colleges for imparting technical education in Civil, Mechanical and Electrical Engineering. Subsequently the UG Programme in Electronics Engineering, Computer Engineering and Production Engineering, and Chemical Engineering were respectively introduced in the year 1983-84, 1988-89 and 1995-96. At present, the Institute is offering seven UG Programmes with an intake of 450 students which may be increased due to the reservation policy to be decided by the appropriate authority. In addition to the above, 20 students are admitted through Government of India from foreign countries. The Institute is at present offering the following PG Programmes with an intake of 18 students which may be increased due to the reservation policy to be decided by the appropriate authority.

### Applied Mechanics Department

- (a) Structural Engineering
- (b) Soil Mechanics & Foundation Engineering

### Civil Engineering Department

- (a) Environmental Engineering
- (b) Town and Regional Planning
- (c) Water Resource Engineering

### Chemical Engineering Department

- (a) Chemical Engineering

### Computer Engineering Department

- (a) Computer Engineering

### Electrical Engineering Department

- (a) Industrial Electronics

### Electronics Engineering Department

- (a) Communication System

## Mechanical Engineering Department

- (a) Turbo Machines
- (b) Mechanical Engineering
- (c) Industrial Process Equipment Design (Sponsored by Larsen & Toubro Ltd., Hazira, Surat)
- (d) Thermal System Design
- (e) CAD-CAM

The Ph. D. Programmes are offered in the following disciplines:

1. Applied Sciences (Physics, Chemistry, Mathematics)
2. Civil Engineering
3. Applied Mechanics (Structural Engineering & Geotechnical Engineering)
4. Chemical Engineering
5. Mechanical Engineering
6. Computer Engineering
7. Electronics Engineering
8. Electrical Engineering

## 2. RESEARCH FACILITIES

All the departments of the institute have well – equipped research laboratories and computational facilities. In addition, there are a few central facilities, which include Computer Center, Central Library and Workshop. The Central Library has a large collection of books, back volumes of periodicals, standards and other literature. The Library has now more than 1.25 lakhs books and volumes and subscribes to over 1500 current journals in Engineering and Applied Sciences. Further, institute has received grant to the tune of Rs 22 Crores under Technical Education Quality Improvement Programme of World Bank. Out of this almost 80% has been utilized in very high level infrastructure development, including Sophisticated Instrumentation Laboratory, Media Laboratory, and CAD Laboratory where most recent softwares have been procured for high level research.

## 3. STUDENT AMENITIES

Institute is fully residential and has 9 hostels for students. Each hostel is an independent entity with its own mess facilities, recreation areas, etc. Construction of another ladies hostel and an independent hostel for post

graduate students as well as research scholars is in completion stage. However students may be permitted to have their own arrangement for accommodation outside the campus.

Extra – curricular activities are supported through Students' Council. The activities include sports, cultural programmes, a national level technical symposium for students (MINDBEND) etc.

#### 4. Ph. D. PROGRAMMES

The Institute offers Doctorate Programmes leading to Ph. D. in various disciplines. The aim of the Programme is to train the candidates in high level theoretical and experimental expertise that enables them to tackle practical complex problems of design and development in the industrial fields as well as pursue of further academic achievements through research. Enough flexibility is provided in the structure of the Programme to help the candidates to achieve the above-mentioned aim. The departments are equipped with sufficient facilities for these purposes. The Institute offers Programme of minimum three years for the full time candidates and part time candidates. The maximum period allowed for full time candidates is five years and for part time external candidates is seven years.

Every stream of specialization in the Programme will have a curriculum and syllabus for the courses approved by the Senate. The full time research scholars have to complete 12 credit requirements in the form of course work and credit seminar in first two semesters whereas the part time scholars have to complete the same in first two years. For directly admitted students, the credit structure is 48 credits. Continuance of Ph. D. registration will be subjected to fulfillment of these initial course credit requirements.

#### 5. ELIGIBILITY FOR ADMISSION

The eligibility for admission to Ph. D. in Engineering Faculty, Science Faculty, Humanities and Social Science Faculty and Interdisciplinary areas is:

1. A candidate shall possess Master's Degree in relevant area of Research and should have passed with at least second-class with minimum 50% (CGPA = 5.0) or equivalent in respective Engineering faculty and 55% in other cases.
2. If a student of full-time M.Tech./M. Phil. programme at the Institute wants to change over to a Ph.D. programme of the Institute, he

may be permitted to do so from the beginning of the second year provided:

- a) He has obtained a CGPA of 9.0 or above after having registered for the full credits of course work in each of the first and second semester of M. Tech. / M. Phil Programme.
- b) Once a student changes to Ph.D. Programme, thereafter he is governed by the Regulations of the Ph.D. Programme of the Institute.

3. Candidate who have qualified for award of Bachelor's degree in Engineering / Technology with exceptionally good academic record (CGPA 9.0/equivalent marks or higher) in prescribed discipline will also be considered for direct admission to Ph.D. Programme subject to the following conditions:

- a) Minimum 5 year of research experience in the reputed organization and
- b) Have published minimum 2 papers in peer reviewed International Journal(s) or have minimum 2 patents (Indian or International) awarded to him/ her.
- c) He should be eligible for admission to M. Tech. Programme in that particular stream by virtue of his excellent GATE score.
- d) He will be registered as full time research scholar with minimum 4 years of duration.

## 6. CATEGORIES OF Ph. D. PROGRAMMES

The status of the candidates admitted to the Ph. D. Programmes will be as follows:

- a) Full-time Institute Research Scholars. (FIR)
- b) Full-time Research Scholars and paid by Government/Semi-Government organization / QIP / EFIP. (FRS)
- c) Full-time sponsored candidates. (FSC)
- d) Part-time Institute faculty Staff. (PIS)
- e) Part-time Project Staff. (PPF)
- f) Part-time External candidates. (PEC)
- g) Full-time Self-financing candidates. (FSF)
- h) Full-time Study leaves candidates. (FSL)



There shall be provision for 2 categories of registration to the candidates willing to register for Ph.D.

I : Full time : Students who are willing to pursue research on full time basis

II : Part-time :

- (a) Institute faculty, Staff and Project staff.
- (b) Faculty staff and Project staff working in any Technical Institute duly approved by competent authority namely AICTE/UGC.
- (c) Candidate working in any Public/Private sector organization or Research Laboratory / Organisations who is willing to pursue Research on part-time basis.

Note:

- Full-time Institute Research Scholars are recipients of the Institute scholarships and are governed by the Scholarship rules.
- Full-time Research Scholars paid by Government/Semi-Government organizations such as CSIR, UGC, QIP, DAE, AICTE, etc. will receive their stipend and contingency grants from their respective supporting organizations. The format for the sponsorship letter for full-time is given in appendix – I. They have to produce at the time of registration the reliving certificate as given in appendix- II.
- Full-time sponsored candidates are recipients of complete financial support including stipend, contingency grants and project expenses from the sponsoring organizations. The format for the sponsorship letter for full-time is given in appendix – I. They have to produce at the time of registration the reliving certificate as given in appendix- II.
- Part-time Institute Faculty/Staff, Project Staff are expected to work for their Ph.D. Programme while fulfilling their normal duties.
- Part-time External candidates are allowed to carry out their Research work at the Institute or at their parent organization (subjected to fulfillment of other requirements, rules and regulations laid down by the senate) after fulfilling certain pre-requisites at the Institute. They are not entitled to Institute scholarship. The external candidate shall produce a relevant sponsorship in the format given in appendix – III or the no objection certificate from his/her employer. They have to produce at the time of registration the reliving certificate as given in appendix- IV.
- Full-time Self-financing candidates are expected to work full-time and are subject to the rules of the Institute.
- Full time Study Leave Candidates are expected to work full time at the institute. They are not entitled to institute scholarship. Such candidates are required to produce sponsorship certificate from their organization and

submit it along with the application for admission. The format for sponsorship certificate for external candidates is given in Appendix – V.

## 7. ADMISSION CRITERIA FOR Ph. D. PROGRAMMES

### I. NON - SPONSORED CANDIDATES :

#### a) GENERAL CATEGORY :

- M. E. / M. Tech. or Equivalent with a minimum of 50% marks in all semesters/years in M. E. / M. Tech. (CGPA = 5.0)
- Preference will be given to GATE qualified candidates.

#### b) RESERVED CATEGORY :

- M. E. / M. Tech. or Equivalent with a minimum of 45% marks in all semesters/years M. E. / M. Tech. (CGPA = 4.5)
- Preference will be given to GATE qualified candidates.

### II. SPONSORED CANDIDATES :

#### a) GENERAL CATEGORY :

- M. E. / M. Tech. or Equivalent with a minimum of 50% marks in all semesters/years either in M. E. / M. Tech. (CGPA = 5.0)
- Preference will be given to GATE qualified candidates.

#### b) RESERVED CATEGORY :

- M. E. / M. Tech. or Equivalent with a minimum of 45% marks in all semesters/years either in M. E. / M. Tech.
- Preference will be given to GATE qualified candidates. (CGPA = 4.5)

### NOTE :

- (i) In addition to above criteria, the eligibility for admission to Doctorate Programme will also be governed under Clause 5 "ELIGIBILITY FOR ADMISSION".
- (ii) The final selection to Doctorate Programme under all categories will be strictly subjected to the performance of the candidate in interview before respective selection committee.

## 8. APPLICATION PROCEDURE

The candidates have to submit an Application and processing Fee (Nonrefundable) of Rs.1000/- (for Open/OBC) and Rs.500/- (SC/ST) with the application. The fee has to be submitted in the form of crossed Demand Draft in favour of "The Director, SVNIT, Surat" payable at Surat .

The list of candidates called for the interview shall be put on the Institute website <http://www.svnit.ac.in> in the month of July and December.

## FILLING – UP THE FORM

- a) After carefully reading the instruction given in the brochure, fill in the application form.
- b) Candidate should complete the application form in all respects. Incomplete application forms will be rejected.
- c) Forms should be filled neatly and cleanly.
- d) For SC/ST candidate Fresh Caste Certificate must be attached with application form.
- e) For OBC candidates, if applicable, the certificates will be required to be produced as per the decision of the appropriate authority.

Note: Application form is on the last page of this Information Brochure.

### 9. FEES AND DEPOSITS

The complete fee structure is given in Appendix - VI.

### 10. FINANCIAL SUPPORTS

The Full-time Institute Research Scholars will be paid scholarship at a rate in accordance with the directives from the appropriate authorities. They are eligible to receive scholarship for a maximum period of three years.

### 11. REGISTRATION FOR Ph. D. DEGREE

Every student after consulting his Supervisors is required to register for the approved courses with the Course Coordinator of respective Department at the commencement of each semester on the day fixed for such registration and notified in the Academic Calendar.

Candidates who do not register till the day announced for the purpose may be permitted for late registration up to maximum one week on payment of late fee.

### 12. RULES & REGULATIONS

All the research scholars shall be governed by the rules & regulations laid down by the institute from time to time.

All Full-time candidates have to carry out Research in the Institute at least for a period of three years from the date of registration before submission of thesis. Part-time candidates have to carry out Research for at least a period of three years from the date of registration before submission of thesis. The above duration is inclusive of the Course Work and Credit Seminar.

**SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY**  
**SURAT – 395007, GUJARAT**  
**APPLICATION FORM**

FOR ADMISSION TO DOCTORATE DEGREE PROGRAMME

**Registration No.**  **Application No.**   
 (Leave blank) (Leave blank)

Area of Proposed Research \_\_\_\_\_

Choice of Supervisor in order of preference (If, any)  
 a) \_\_\_\_\_  
 b) \_\_\_\_\_  
 c) \_\_\_\_\_  
 d) \_\_\_\_\_  
 e) \_\_\_\_\_

Please paste  
 a recent,  
 self- attested  
 passport-  
 size  
 photograph

Registration Fee      
 Bank Draft No. Date Amount Issuing bank

1. Name in full \_\_\_\_\_  
 (*Capital letters*) Surname First name Father's first name

2. Sex  M  F 3. Date of Birth   
 (*Attach certificate*) day month year

4. Age: \_\_\_\_\_ 5. Nationality: \_\_\_\_\_

6. a) Name of the Parent/Guardian Shri/Smt \_\_\_\_\_  
 Surname First name Father's first name

b) Relationship : \_\_\_\_\_

c) Address for the correspondence : \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ PIN \_\_\_\_\_

d) Permanent Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ PIN \_\_\_\_\_

e) Contact Phone No. : Present \_\_\_\_\_  
 (with area code) Permanent \_\_\_\_\_

f) E-mail : \_\_\_\_\_

7. Admission Categories : General  Sponsored  SC  ST  OBC   
 Others

8. Categories in Ph. D Program (Tick Appropriate Category)

Full-time Institute Research Scholar. (FIR)	<input type="checkbox"/>
Full-time Research Scholar and paid by Government/Semi-Government Organization / (FRS)	<input type="checkbox"/>
Full-time sponsored candidate. (FSC)	<input type="checkbox"/>
Part-time Institute faculty Staff. (PIS)	<input type="checkbox"/>
Part-time Project Staff. (PPF)	<input type="checkbox"/>
Part-time External candidate. (PEC)	<input type="checkbox"/>
Full-time Self-financing candidate (FSF)	<input type="checkbox"/>
Full-time Study leaves candidate (FSL)	<input type="checkbox"/>

9. Whether GATE qualified : Yes  No

10. If yes give details, or write N/A

<input type="text"/>	<input type="text"/>	<input type="text"/>
Branch	Validity Period	GATE Percentile

11. Details of Qualifying Examination

Examination	University	Year of Passing	Grade Point Average/Percentage of Aggregate Marks Obtained	Class/Grade
S. S. C.				
H. S. C.				
OTHERS, IF ANY (Pl. Specify)				
<b>B. E. / B. Tech. or Equivalent Examination</b>				
1 <sup>st</sup> YEAR				
2 <sup>nd</sup> YEAR				
3 <sup>rd</sup> YEAR				
4 <sup>th</sup> YEAR				
<b>CGPA/Aggregate Percentage of B. E. / B. Tech. or Equivalent Exam (All Semester)</b>				
<b>M. E. / M. Tech./ M.Sc / M.B.A. or Equivalent Examination</b>				
1 <sup>st</sup> YEAR				
2 <sup>nd</sup> YEAR				
<b>CGPA/Aggregate Percentage of M. E. / M. Tech. / M.Sc / M.B.A or Equivalent Exam (All Semester)</b>				

12. Name of Institute/Department last attended and Year :

13. If employed, name and address of the present employer :  
(Sponsorship Certificate from the Employer should be attached)

14. List of publications (Re-prints should be produced before the interview committee. Attached separate sheet if necessary)

15. Experience if any :

(i) Research and Development (Brief description of any specific research & development work carried out along with the supporting documents. Attached separate sheet if required)

(ii) Teaching at Post Graduate level : Duration in year –  
Subjects taught –

16. The following details to be filled in by the candidates of part-time external category

(i) Name of the PG course currently offered in the proposed area of research, if any, at your institute/organizations and it's year of starting -

(ii) Major infrastructure research facility in the proposed area of research available at your institute/organizations -

17. Declaration by the applicant

I, Mr / Ms. \_\_\_\_\_ hereby declare that all the particulars stated in the application and enclosures are true to the best of my knowledge and belief. I have read the Information Brochure and I shall abide by the terms and conditions therein. I understand that my admission will be provisional and in event of being found not eligible at a latter date, I will be denied admission and, if already admitted, my admission will be cancelled. I also declare that I have fully understood the implication of scheme of Doctoral Program and that I should be devoting full time to my Doctoral Program studies. I also understand that in all matters concerning the admission, the decision of the Institute authority is final and I should abide by it.

Place:

\_\_\_\_\_  
*Signature of the Applicant*

Date:

**Note :**

1. Candidate must fill correct CGPA/Aggregate percentage of B.E. / B. Tech. or Equivalent Examination (all semester) and M.E. / M. Tech. or Equivalent Examination (all semester). Application without aggregate percentage or incorrect and misleading data will be rejected without assigning any reasons for the same.
2. Attach Authenticated Transcript of Grades/Marks of all the semester leading to qualifying examination.
3. If not already passed, give likely date of announcement of result. In such cases the aggregate marks of previous semesters must be mentioned.
4. Candidates are required to attach all the relevant certificates including experience and sponsorship certificates.

APPENDIX – I

Sponsorship Letter For Full-Time Candidates

(This should be typed on letterhead of the Sponsoring Organization)

To,

The Director,  
Sardar Vallabhbhai National Institute of Technology,  
SURAT – 395 007

Sub. : Sponsoring of an Employee for Ph. D. Programme

Dear Sir,

We hereby sponsor candidature of Shri/Kum/Smt. \_\_\_\_\_,  
who is an employee in our Organization, for joining Ph. D. Programme in  
\_\_\_\_\_ at your Institute as a FULL-TIME candidate.

We shall bear the total expenses of his/her studies. We shall fully relieve him/her of his/her duties in the Organization for the complete duration of Ph. D. Programme to enable him/her to devote full time to the studies (minimum three years).

Signature of Head of Organization with Seal



APPENDIX – II

Relieving Letter in case of Full Time Research Scholar

(This should be typed on a letterhead of the Organization)

To,

The Director,  
Sardar Vallabhbhai National Institute of Technology,  
SURAT – 395 007.

Sub. : Relieving an employee as Full Time Research Scholar

Dear Sir,

We hereby relieve Shri/Smt./Kum. \_\_\_\_\_,  
an employee of this Organization, on full pay leave for joining Ph. D. Programme at  
SVNIT, Surat for a period of \_\_\_\_\_ years. (at least three years)

Signature of Head of the Organization with Seal

APPENDIX – III

Sponsorship Letter For Part-Time Candidates

(This should be typed on letterhead of the Sponsoring Organization)

To,  
The Director,  
Sardar Vallabhbhai National Institute of Technology,  
SURAT – 395 007

Sub. : Sponsoring of an Employee for Ph. D. Programme

Dear Sir,

We hereby sponsor candidature of Shri/Kum/Smt. \_\_\_\_\_,  
who is an employee in our Organization, for joining Ph. D. Programme in  
\_\_\_\_\_ at your Institute as a PART-TIME candidate.

We shall bear the total expenses of his/her studies. We shall fully relieve him/her of his/her duties in the Organization for any one semester (unless an exemption is granted by the institute) during the first year of Ph. D. Programme to enable him/her to devote full time to the studies.

Signature of Head of Organization with Seal

APPENDIX – IV

Relieving Letter For Part-Time Candidates

(This should be typed on letterhead of the Sponsoring Organization)

To,

The Director,  
Sardar Vallabhbhai National Institute of Technology,  
SURAT – 395 007

Sub. : Relieving an employee as Full Time Research Scholar

Dear Sir,

We hereby relieve Shri/Smt./Kum. \_\_\_\_\_,  
an employee of this Organization, on full pay leave for joining Ph. D. Programme at  
SVNIT, Surat for a period of \_\_\_\_\_ months. (at least one semester).

Signature of Head of Organization with Seal

APPENDIX – V

Relieving Letter for Candidates Joining on Study Leave  
(This should be typed on letterhead of the Organization)

To,  
The Director,  
Sardar Vallabhbhai National Institute of Technology,  
SURAT – 395 007

Sub. : Relieving an Employee on Study Leave

Dear Sir,

We hereby relieve Shri/Kum/Smt. \_\_\_\_\_,  
an employee of this Organization on Study Leave without any financial assistance  
for joining Ph. D. Programme at SVNIT, Surat for a period of \_\_\_\_\_ years  
(minimum three years).

Signature of Head of Organization with Seal

## APPENDIX – VI

### \* Current Fee Structure of Ph. D. Programme

#### RECURRING :

(i)	Tuition Fee per Semester	17,500.00
(ii)	Other Fees per annum (Inclusive of Examination, Library & Other fees)	3,000.00

#### NON-RECURRING :

(i)	Admission Fee (One time)	1,000.00
(ii)	Alumni Fee (One time)	1,000.00
(iii)	Security Deposit (Refundable) (One time)	5,000.00

\* Subject to Change by the institute from time to time.