



Department of Mathematics & Humanities

Sardar Vallabhbhai National Institute of Technology
Surat, Gujarat-395007

DoMH Welcomes you



Current Head of Department

Dr. Jayesh M Dhodiya

Email Id: hod@amhd.svnit.ac.in



Message from Hod

Dear Students,

On behalf of the faculty members and staff of the Department of Mathematics & Humanities, I congratulate you all for being selected in one of the premier Institute of our country, SVNIT Surat. I welcome you all to the family of DoMH. You will be a part with us for the next five years and you will get numerous opportunities to develop academic as well as non-academic skills.

This brochure aims to provide useful information about the department, course structure, academic rules and regulations. It also provides the achievements of our students as well as research areas of faculty members. This information will help design your career goal. If you have any other questions, please feel free to contact me or any other faculty member of the department for any purpose.

I wish you, All the Best for your Journey in SVNIT and also for your Academic Endeavour!

Faculties



Dr. A. K. Shukla

Professor (Mathematics)

Area of Research

Special functions, Integral
transforms & Fractional
Calculus

E-Mail Id: aks@amhd.svnit.ac.in



Dr. V. H. Pradhan

Professor (Mathematics)

Area of Research

Fluid dynamics in porous
media with relevance to
ground water flow and
petroleum recovery,
Numerical techniques

E-Mail Id: vhp@amhd.svnit.ac.in



Dr. Neeru Adlakha

Professor (Mathematics)

Area of Research

Mathematical and Computational
Biology Bioinformatics/ Biomathe-
matics / Bio-computing, Data min-
ing, Finite element modeling

E-Mail Id: nad@amhd.svnit.ac.in



Dr. Hemant P. Bulsara

Associate Professor (Management)

Area of Research

Techno innovation to Technoentrepreneurship through Techno Business incubation, Marketing Entrepreneurship Strategy, Supply Chain Management(SCM), General Management

E-Mail Id: hbulsara@amhd.svnit.ac.in



Dr. Sushil Kumar

Associate Professor (Mathematics)

Area of Research

Mathematical Modeling, Bio-Mechanics, Fractional Differential equations, Moving boundary problems, Numerical techniques, Radial basis function, Chebyshev polynomial

E-Mail Id: sushilk@amhd.svnit.ac.in



Dr. Jayesh M. Dhodiya

Associate Professor (Mathematics)

Area of Research

Advanced Operation Research, Optimization Technique, Mathematical Modeling and Simulation, Knowledge Based System, Data Mining

E-Mail Id: jmd@amhd.svnit.ac.in



Dr. Urvashi Kaushal

Assistant Professor (English)

Area of Research

Post Modern Fiction, Indian English Fiction and Feminist Literature, Themes in Diaspora literature.

E-Mail Id: k.urvashi@amhd.svnit.ac.in



Dr. Twinkle R. Singh

Assistant Professor (Mathematics)

Area of Research

Fluid flow through Porous media, Non-linear partial differential equations, Burger's equation, Groundwater recharge phenomenon, Analytical approximate Methods, Mathematical Modeling

E-Mail Id: trpatel@amhd.svnit.ac.in



Dr. Ranjan Kumar Jana

Assistant Professor (Mathematics)

Area of Research

Special Functions and Integral Transform, Operations Research, Mathematical Physics, Fractional Calculus, Mittag-Leffler function Numerical Weather Prediction, Ramanujan's Mathematics.

E-Mail Id: rkj@amhd.svnit.ac.in



Dr. Ramakanta Meher

Assistant Professor (Mathematics)

Area of Research

Differential Equations, Fractional Differential Equations, Fluid Dynamics, Fluid flow through Porous Media, Approximation theory, Numerical Analysis

E-Mail Id: rm@amhd.svnit.ac.in



Dr. Indira P. Debnath

Assistant Professor (Mathematics)

Area of Research

Mathematical Programming Problems, Non-smooth Optimization, Fractional Programming problems, Interval-Valued Optimization, Generalized Convexity, I-fuzzy/Fuzzy Optimization, Variational Control Problems

E-Mail Id: ipd@amhd.svnit.ac.in



Dr. Shailesh Kumar Srivastava

Assistant Professor (Mathematics)

Area of Research

Trigonometric Approximation theory

E-Mail Id: shailesh@amhd.svnit.ac.in



Dr. Raj Kamal Maurya

Assistant Professor (Mathematics)

Area of Research

Reliability Theory and Survival Analysis, Estimation under various Censoring, Competing Risk, Optimum Plan

E-Mail Id: rkm@amhd.svnit.ac.in



Dr. Amit Sharma

Assistant Professor (Mathematics)

Area of Research

Algebraic Coding Theory: Constructions of error-correcting codes such as linear codes over finite rings, skew codes, quantum codes

E-Mail Id: amitsharma@amhd.svnit.ac.in



Dr. Sudeep Singh Sanga

Assistant Professor (Mathematics)

Area of Research

Queueing Theory

E-Mail Id: ssanga@amhd.svnit.ac.in



Dr. Saroj R. Yadav

Assistant Professor (Mathematics)

Area of Research

Mathematical Modeling, Non-Linear Partial Differential Equations, Fractional Differential Equations, Analytical Approximate Methods, Numerical Methods, Fluid Dynamics, Fluid Flow through Porous Media

E-Mail Id: sry@amhd.svnit.ac.in



Dr. Vaishali S. Dhingra

Assistant Professor (Management)

Area of Research

Professional Ethics, Economics and Business Management, Innovation, Incubation and Entrepreneurship, Marketing Management, Personnel Management Organization Management Project Appraisal.

E-Mail Id: vsdHINGRA@amhd.svnit.ac.in



Dr. Sourav Gupta

Assistant Professor (Mathematics)

Area of Research

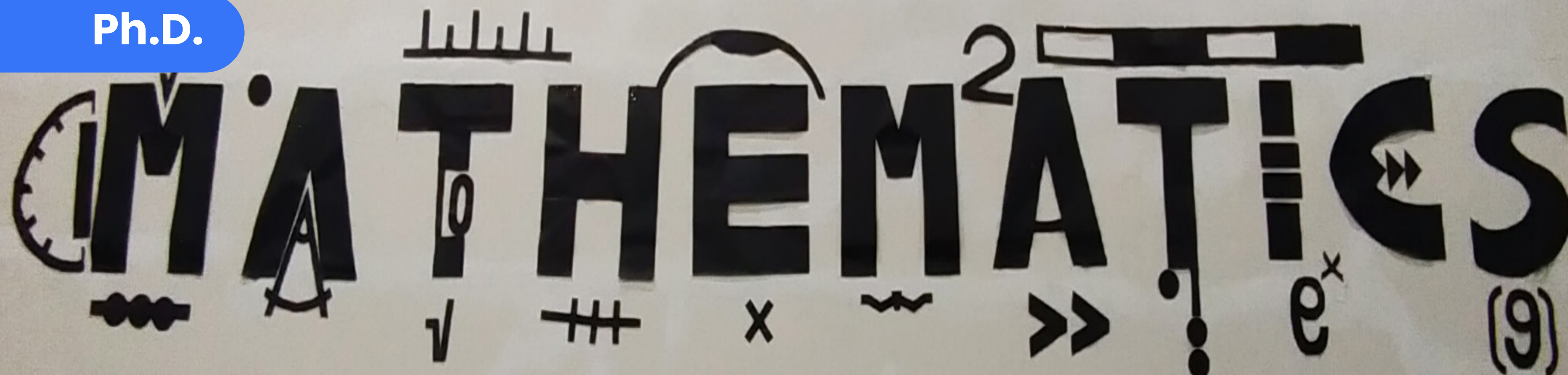
Linear Water Wave Theory, Integral Equations, Numerical Analysis

E-Mail Id: sgupta@amhd.svnit.ac.in

Course is divided into 10 Semesters under 2 Semesters per Year. Each Semester will have around 5-6 subjects in a duration of 17 weeks. Electives from Institute Level is offered in Year 3 and Core Elective from Department is offered from Year 4. Teaching Scheme of subjects may have Lecture(L), Tutorial(T) and Laboratory Practical(P). Each course has certain number of credits depending on Lecture/ Tutorial/ Laboratory Hours per week, which reflects its weightage.

Semester – I	Semester – III	Semester – V	Semester – VII	Semester – IX
<ul style="list-style-type: none"> • Eng. Mathematics-I • Holistic Empowerment and Human Values • Foundational Course in Mathematics-I • Mechanics, Lasers and Fiber Optics • Applied Chemistry • Engineering Drawing • Energy and Environmental Engineering 	<ul style="list-style-type: none"> • English & Professional Communication – II • Elements of Analysis • Analytical Geometry • Discrete Mathematical Structure • Electromagnetics and Relativity 	<ul style="list-style-type: none"> • Probability & Statistics – I • Mechanics • Ordinary Differential Equations • Computer Networks • Institute Elective 	<ul style="list-style-type: none"> • Topology • Abstract Algebra • Fluid Dynamics • Optimization Methods • Department Elective 	<ul style="list-style-type: none"> • Measure Theory & Integration • Probability & Statistics – II • Mathematical Modeling & Simulation • Academic Writing • Dissertation Preliminaries
Semester – II	Semester – IV	Semester – VI	Semester – VIII	Semester – X
<ul style="list-style-type: none"> • Eng. Mathematics-II • Foundational Course in Mathematics-II • Engineering Mechanics • Fundamentals of Computer and Programming • English and Professional Communication • Workshop Practice • Physics of materials and nuclei 	<ul style="list-style-type: none"> • Communication Skills for Employability • Numerical Analysis • Linear Algebra • Elementary Number Theory • Computational Life Sciences • Data Structures 	<ul style="list-style-type: none"> • Complex Analysis • Continuum Mechanics • Metric Spaces • Artificial Intelligence • Mini Project • Institute Elective 	<ul style="list-style-type: none"> • Functional Analysis • Higher Transcendental Functions • Partial Differential Equations • Calculus of Variations & Integral Equations • Department Elective 	<ul style="list-style-type: none"> • Dissertation

Ph.D.



The Department of Mathematics and Humanities at SVNIT offers both full time and part time Ph.D. programmes in Mathematics, English and Management. The Ph.D. programme admits candidates with excellent academic credentials, intellectual abilities and discipline needed to make outstanding contributions to society. It aims to equip students with the skills to identify and carry out interdisciplinary research to solve the existing real world problems and therefore, it is committed to preparing highly employable Ph.D graduates who are skilled to acquire a career not just in academia but in industries and inherent organizations as well. Until now 89 students has awarded Ph.D.

Course Structure

Students generally spend a little over 5 years to complete their Ph.D. which included 1.5 years of rigorous coursework. During this 16 credits gain expertise and in their chose area of research by taking up courses offered both at the institute over as well as by MOOCs such as Nptel. The Ph.D. programme encourages students to make constructive and original contribution to their respective areas of research at the institute before a committe who gauge the student's research work and give constructive feedback. This is followed by a comprehensive examination and the viva vice at the end of their coursework which gives them an opportunity to demonstrate their proficiency in their field of research. Also, students admitted to the programme receive a comprehensive fellowship accompanied with a modest contingency grant to encourage students to participate in national and international conferences and other training programmes.

Facilities



Our Department has started its own library maintained at First Floor of DoMH. There are various collection of books in the field of Mathematics, It is funded by National Board of Higher Mathematics (NBHM). Almost all the topics are covered by not limited to those topics. One can ask Department to purchase a book by writing a letter and submitting it in Office Section mentioning the purpose of book

Computer Lab



Placements



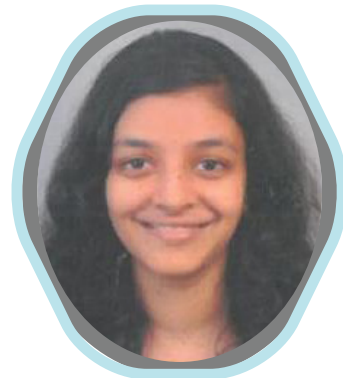
VISHAL CHOUDHARY

Placed at SEARCE as BTA Applied AI



VATSAL MORADIYA

Placed at SEARCE as ML Engineer



ISHIKA BHATT

Placed at SEARCE Analyst Client
Opreation



PURVA SEHGAL

Placed at Searce as BTA Applied AI



ASHWANY KUMAR VERMA

Placed at DELOITTE USI as Analyst



VISHAL AGARWAL

Placed at DELOITTE USI as Analyst



URVASHI JOSHI

Placed at Akash Institute as Faculty



RUTVIJ TOLE

Placed at Byjus as Content
Developer



SHUBHAM VNIT

Placed at Byjus as Content
Developer



ANJALI PAL

Placed at TCS NINJA as Graduate
Engineer



SHASHANK GUPTA

Placed at Wipro as Software
Enigneer



PRIYANKA BHATTER

Placed at Kantar Analytics as
Analyst



CHALUVAGALI MEGHNA

Placed at UGAM as Analyst



AKSHAY KISHORE

Placed at Federal Bank as Junior
Officer



PARVATHY A

Placed at UGAM as Analyst



HARSH KALE

Placed at UGAM as Analyst



JORDAN NITWARE

Placed at UGAM as Analyst



BAISANE JAYKUMAR HARIBHAI

Placed at Infosys as Graduate



SHAURYA KHANDELWAL

Placed at Samsung as SDE



SANGANI BHAVIN PRAVINBHAI

Placed at TCS R&D as SDE



RONAK SHARMA

Placed at MyClassroom as Faculty



SAUBHAGYA TRIPATHI

Placed at MyClassroom as Faculty

Hostels





Gajjar Bhavan



Mother Teresa Bhavan



Nehru Bhavan

A photograph of a two-story building with a white facade and a balcony. The building is partially obscured by green foliage in the foreground. The name 'Sarabhai Bhavan' is written in both Marathi and English on the upper part of the building.

साराभाई भवन
Sarabhai Bhavan

Sarabhai Bhavan



Swani Vivekanda Bhavan



The city of Surat, also known as “The Silk City”, “The Diamond City”, or “The Green City”, is in Gujarat, an Indian state situated beside the Tapi River. Previously known for silk weaving, Surat is now a textile center with fabric shops lined up in the New Textile Market area. Surat Castle, built in the 1500s to defend the city from Portuguese colonists, overlooks the river. There are elaborate colonial-era tombs in the Dutch, Armenian, and English Cemeteries nearby. It is the eight largest city and ninth largest urban agglomeration in India. There are many places to visit in Surat like Dutch Garden, Dumas Beach, Hajira Village, Sardar Patel Museum, Sarthana Nature Park, Science Center, Swaminarayan Temple etc. Vadodara which is approximately 150 Kms also has many visiting locations like Lakshmi Vilas Palace, Baroda Museum Picture Gallery etc. One can find Buses going to the Statue of Unity for visiting purposes and there are lots of visiting places to visit during your stay in SVNIT for a 5 year period.



For more Details <https://www.svnit.ac.in/web/departement/maths/>