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 Admissions@snu.edu.in

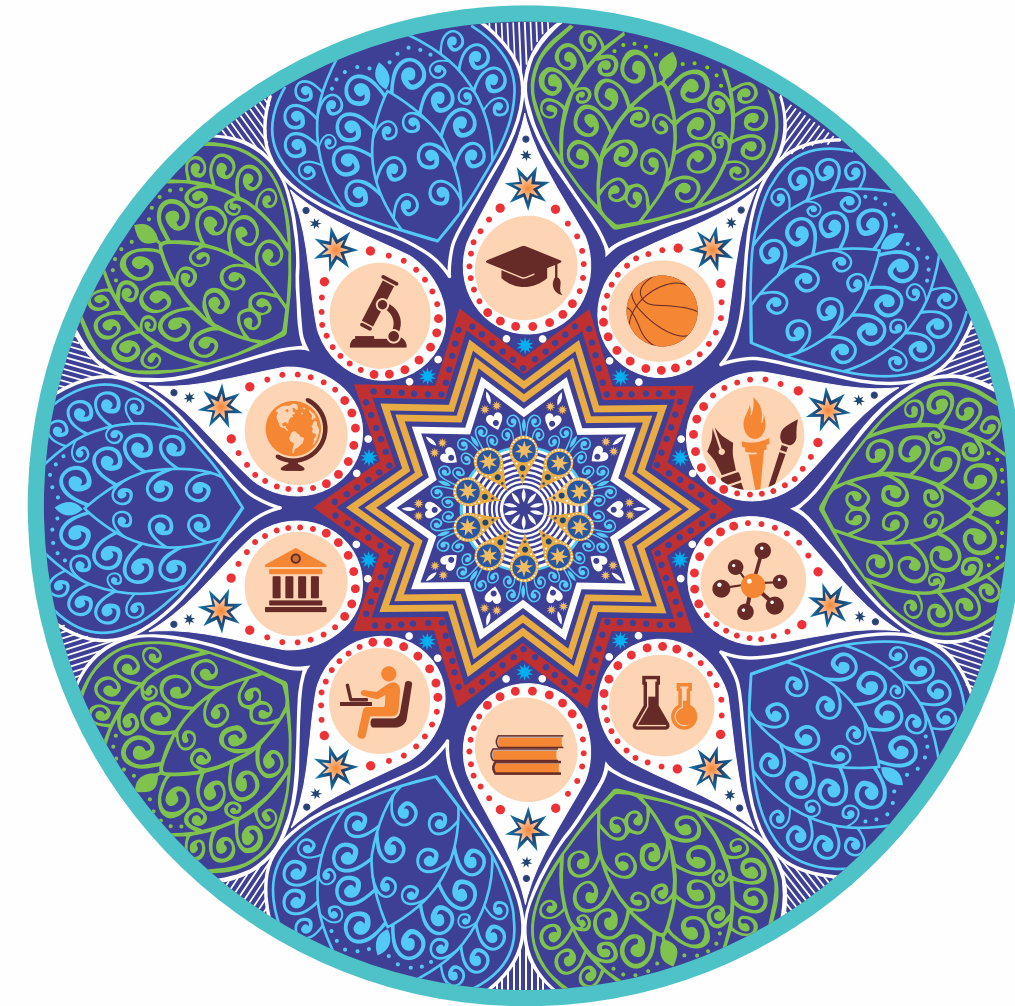
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 /ShivNadarVarsity

 @ShivNadarUniv

SHIV NADAR UNIVERSITY

Shiv Nadar University
NH91, Tehsil Dadri, Gautam Buddha Nagar, Uttar Pradesh - 201314, India



SHIV NADAR UNIVERSITY

2017-18



Shiv Nadar University was established in 2011 by the Shiv Nadar Foundation through an Act of the State of Uttar Pradesh.

“If there is a tool that can empower individuals and narrow the socio-economic, rural-urban divide, I believe that it is transformational education.”

- Mr. Shiv Nadar
Founder and Chairman, HCL and Shiv Nadar Foundation

Mission & Objectives

A comprehensive, multidisciplinary, research-focused, and student-centric university aimed at becoming a leading international institution of higher learning by:

Developing and educating the path-shapers of tomorrow, who can shoulder the challenges of globally responsible, and ethical leadership in the 21st century.

Supporting research, scholarly, and creative endeavors that contribute to the creation of new knowledge at the frontiers of specialized areas as well as at the interface of diverse disciplines.

Evolving research and teaching programs that tackle the most pressing problems of the State of Uttar Pradesh, India, and the global community.

Vision & Purpose

To empower individuals and communities to realize and exercise universal freedom through acquisition and application of knowledge by:

Dedicating to the development, organization, preservation, dissemination, and application of knowledge in a wide range of fields of study.

Committing to excellence in teaching, discovery & innovation, scholarship, and service to expand the scope of human understanding, and contributing to the betterment of the world.

Pledging to serve the higher education needs of State of Uttar Pradesh, India, and the global community.



Message from the Chancellor

At Shiv Nadar University, we are progressing in a systematic and balanced way to become India's foremost student-centric, research-led, multidisciplinary university. We are attracting an increasing number of bright students as well as stellar faculty. We are investing heavily in laboratories and in research; our curriculum is innovative, advanced and dynamic to challenge inquisitive minds. We are continually striving to find ways to enhance student learning in and outside classes. As our graduating students become the Shiv Nadar University ambassadors to the outside world, we keep strengthening our academic programs to prepare students for leadership positions in the 21st century and simultaneously creating the systems and processes to support our robust growth.

We will continue to be guided by the values of transparency, best practices and creative philanthropy of the Shiv Nadar Foundation as we move ahead on our path to create a landmark institution of higher learning in India at par with top global educational institutions-- a new-age University that will play a key role in transforming education in this country and create true leaders for the future.

Dr. S N Balakrishnan

Chancellor and Chairperson – Executive Council, Shiv Nadar University



“

Research is looking into the unknown for the unknown. It is relating yesterday's findings with today's observations with predictions for tomorrow. It is never static; it is dynamic. In a fast changing world, we cannot afford to be content with yesterday's findings alone.

”

- Dr. S N Balakrishnan
Chancellor and Chairperson – Executive Council,
Shiv Nadar University

SHIV NADAR UNIVERSITY CONVOCAATION 2016



Overview

Learning to Discover

Education at Shiv Nadar University is a joint process of discovery between the teacher and the taught, bringing with it the joy of revelation, and allowing undergraduate and graduate students to participate in the creation of knowledge, rather than being passive recipients.

A comprehensive, multidisciplinary, student-centric, and research-focused institution, Shiv Nadar University is bringing a paradigm shift in higher education in India through its innovative curriculum, interdisciplinary focus, and cross-disciplinary thinking across a wide range of disciplines. The University is building an eco-system of knowledge to promote recognition of the inter-connectedness of ideas, systems, and environments in the world inside the campus, and those outside it.

Shiv Nadar University students get the opportunity to train, manage, and lead public institutions, commercial enterprises, and formal & informal organizations. Equal emphasis is given to intellectual skills, leadership values, responsibility, and a commitment to serve the community that sustains us.



“ Shiv Nadar University is student-centric, faculty-driven, research University. We don't practice Multidisciplinarity at the cost of Monodisciplinarity; breadth is not at the cost of depth. ”

- Prof. Rupamanjari Ghosh
Vice Chancellor and
Director, School of Natural Sciences

Research, Critical Thinking, and Problem Solving form the core of the learning structure. Students develop the ability to challenge assumptions, critically examine problems, and seek solutions through the application of knowledge they have gained. Classroom learning extends into research, group projects, social initiatives, and internships to ensure that the pursuit of knowledge and its application become a lifelong habit.

Shiv Nadar University was established by the Act no. 12 of 2011 of State Legislature of Uttar Pradesh as a State Private University, and was empowered by the UGC to award degrees under Section 22 of the UGC Act, 1956. The University started the Engineering Majors in the Academic Year 2011-12 with the approval of the AICTE. The University is currently registered with DSIR, Government of India as a Research Institution.



An Ecosystem of Discovery

Shiv Nadar University is built on a sprawling campus spread over 286 acre of land with state-of-the-art infrastructure, sophisticated laboratories, international standard sports facilities, amphitheatres, auditoriums, conference rooms, and smart classrooms. A natural water body in the campus is home to vivid flora and fauna such as migratory birds, wooded groves, palm tree clusters, and more.

The University has 5 Schools, 17 Departments and 6 Research Centers engaged in teaching, practice, and research in disciplines as diverse as Engineering, Extended Education & Professional Development, Humanities & Social Sciences, Management and Natural Sciences. The Schools offer Bachelors, Masters, and Doctoral degrees along with multidisciplinary curriculum to enable students to explore subjects and disciplines that maybe widely different from their chosen Majors. In the near future, an estimated 8000 students will be enrolled at Shiv Nadar University.

Students from the first two batches have been placed with some of the best names in industry and academia. Shiv Nadar University students have received admission offers for further studies from globally ranked institutions like Columbia, Boston, New York, Georgetown University, University of Cambridge, University of Massachusetts, Nanyang Technological University, and National University of Singapore amongst many others. Recruiting companies include industry giants such as Cognizant, Mitsubishi, Larsen & Toubro, Amazon, IBM, PricewaterhouseCoopers, Dell, HP R&D Lab, Axis Bank, and Bank of America.

5

SCHOOLS

6

RESEARCH
CENTERS

17

DEPARTMENTS

35+

PROGRAMS
OFFERED



“The University has adopted a distinct curriculum to nurture students for the exciting opportunities of tomorrow. Its unique approach has the potential to positively influence the higher education landscape of our country in the next two to three decades.”

- Shri Pranab Mukherjee
Honorable President of India

Unique Features

Academic Excellence is Shiv Nadar University's raison d'être. The faculty are building a great institution by encouraging the pursuit of knowledge and discovery amongst a selected cohort of meritorious students.

It is one of the first universities to promote an **innovative curriculum** in all disciplines where students can choose electives from different subjects. The innovative curriculum allows for varied Major and Minor combinations across schools.

The undergraduates have advantage of taking classes from the same professors who guide doctoral scholars.

Diversity in learning is integral to the University's approach, and a driver of excellence. For instance, one of the engineering students at Shiv Nadar University went through a transformational journey to change his academic direction from B.Tech. in Mechanical Engineering to B.A. (Research) in English. He has received an admission offer for pursuing M.Phil. in Social Anthropology from one of the most prestigious Universities in the world.

Over 85% of undergraduate students receive some form of **scholarship or financial aid**, and 90% of the postgraduate & doctoral scholars receive stipends and full tuition fee waivers. This gives meritorious students of modest means an access to a world-class faculty and state-of-the-art laboratories.

The University faculty members are doctorates, post-doctorates and inspired practitioners in their area of expertise. They are **scholars of international repute**, key advisors to the government, and well known authors. Drawn from top-ranked universities, faculty members are appointed based on their contribution to research activity. They are innovating courses in areas such as: Academic and Creative Writing; Art and Science of Natural Colors; *Odissi Nritya Paddhati*; Image and Sound Studio; Society & Technology; Literature, Identity & Theatre, and many more.

The University focuses on a **broad spectrum of Research** including basic and applied research, interdisciplinary research, scholarly publications, and creative expression. The cornerstone of Shiv Nadar University's academic mission is its emphasis on undergraduate research.

The University is home to students from 27 Indian States & UTs. The student body reflects **diversity in culture, talent, and perspective**.

27
INDIAN STATES
& UTs REPRESENTED

30+
CLUBS AND
SOCIETIES

154
LABORATORIES
AND STUDIOS

400+
ON CAMPUS
JOBS OFFERED

The University offers **On-Campus Jobs (OCJ)** to its students. It believes in the principle of earn-while-you-learn, and also in the development of a work ethic & accountability in the student body. Under the OCJ program, students work up to twenty hours per week with their preferred department.

The University provides **multiple learning avenues** outside the classroom. Informal chats have led to the genesis of more than 30 vibrant student societies, ranging from curriculum related groups such as Roboyantriki - the robotics club, to creative ones like Visually SNU - the photography society.

Shiv Nadar University believes in an **open culture, fostering the exchange of ideas**. Classroom discussions often continue to the central vista of the University, library, cafeteria, and to the beautiful palm groves on campus.



Strengthening the Foundation

Undergraduate Education

The University has 17 departments across 5 schools that allow for an innovative curriculum with a variety of Major and Minor course combinations. It provides heterogeneous curricula, pedagogy, and assessment. Undergraduates have the opportunity to pursue individual and group research projects with faculty members, creating the perfect mix of new ideas, and established expertise on each team engaged in a project, or a class engaged in learning.

“Joining Shiv Nadar University as an engineering student was a transformational experience for me as I found a deeper connection with my minor subject, English. The humanities department allowed me to change my majors to B.A. (Research) in English, and after that it has been an amazing journey.”

- Gokulnath Govindan
B.A. (Research) in English, Class of 2016
Received an admission offer from University of Cambridge for pursuing M.Phil. in Social Anthropology

Curriculum Architecture

All programs in the Undergraduate Curriculum are structured to reflect the University's belief that multidisciplinary thinking is the key to new discoveries. Each program is anchored in Core Common Curriculum (CCC) – a set of courses aimed to expose students to essential practice and knowledge from eight different categories. Students are required to take University Wide Electives (UWE) to help them develop their knowledge in fields of interest that might lead to specialized choice of a Minor. Disciplinary Majors help develop expertise in specific subjects. International Context (IC) and Research, Experiential and Applied Learning (REAL) courses provide global perspectives, and experience in integrated research. Values, Ethics, Leadership and Service (VELS) provide the philosophical and moral bedrock for future achievement. The credit distribution ensures that students graduate with courses in more than one discipline.

Core Common Curriculum Areas

- Indian History and Society
- World History and Society
- Culture and Communication
- Physical and Biological Systems
- Cognition and Intelligence
- Technology and Society
- Environment and Ecology
- Empirical Reasoning and Analysis



Undergraduate Research

Research, Experiential and Applied Learning (REAL) courses integrate research and training in the conduct of research at the undergraduate level, across all disciplines. To fulfill the degree requirements, undergraduate students must take at least 18 credits in REAL courses. REAL requirements can be fulfilled through different types of courses, projects, work, and service opportunities. The major ones are:

Research Projects • Design Projects • Practicum • Cooperative Education
• Service Learning • Internships • Cultural Immersion

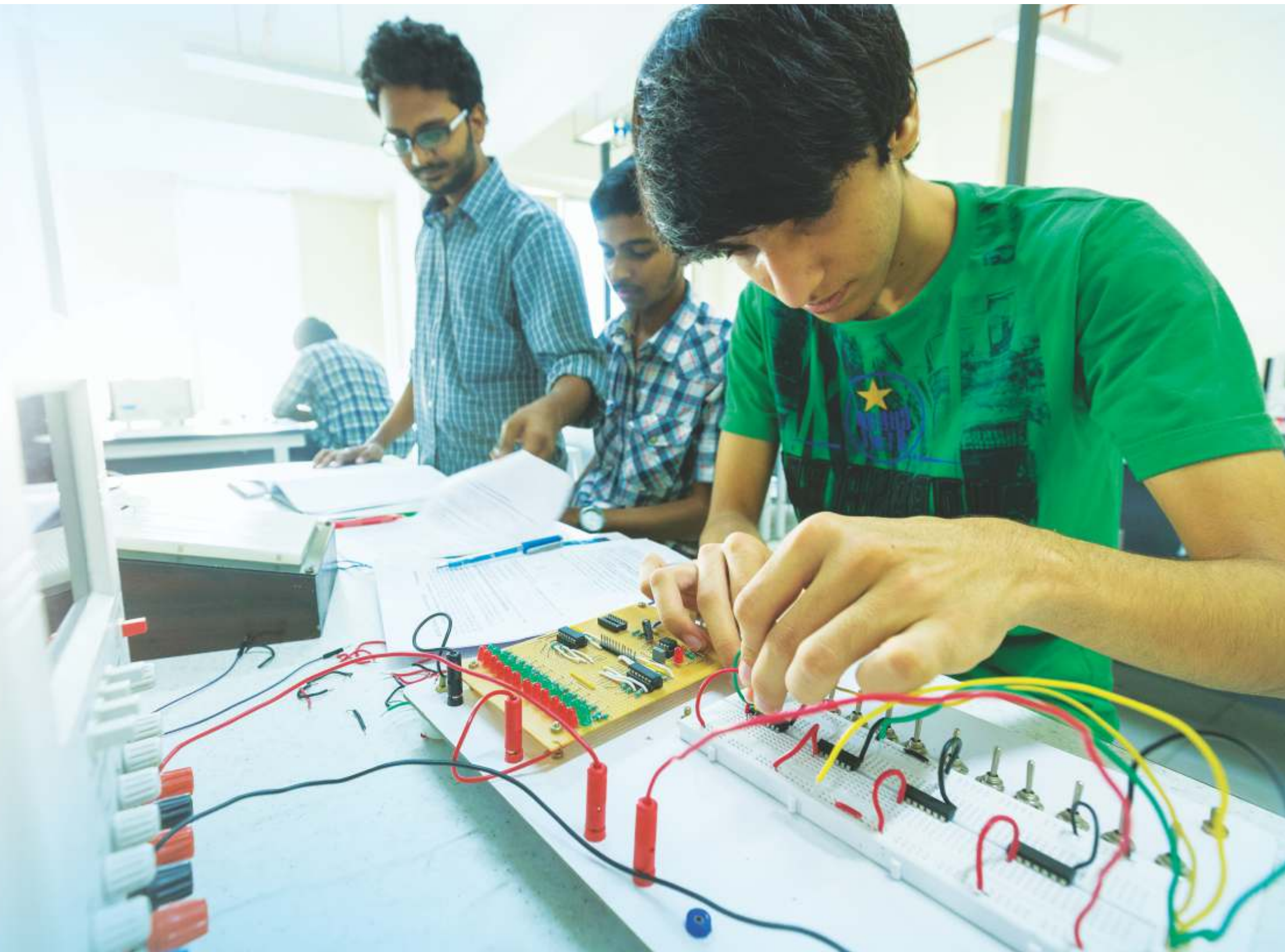
Opportunities for Undergraduate Research (OUR)

Shiv Nadar University is designed as a microcosm of the world that the students will step into after graduation. The OUR program aims to give undergraduates a hands-on experience in conducting research and doing independent work under faculty supervision. OUR lets students learn by discovery, encourages greater student-faculty interaction, and helps identify candidates for graduate programs. Currently over 84 projects are underway including an ethnographic study of the changing Bengali food culture across borders, fabrication and characterization of semi-transparent organic solar cells, and research on microcontroller based enhanced car-safety system.



I have worked in the chemistry research lab extensively through the Opportunities for Undergraduate Research (OUR) program. This is what enabled me to get accepted to the Amgen Scholars Program 2016 at the University of Tokyo as a summer research intern.

- Keerthana A.K.
B.Sc. (Research) in Chemistry, Class of 2017



Graduate Education

Graduate education at Shiv Nadar University has no parallel in India, and is at par with global standards. The University has worked out a combination of pedagogy in the classroom with mentored research supervision along with freedom and encouragement to work on diverse and eclectic areas of research. The combination of practice and study allows students to fruitfully engage with their individual research interests as well as place themselves in a wider network of knowledge creation. Through the opportunity of 'Research and Teaching Assistantship', most of the doctoral students get the opportunity to both delve deeper into their disciplines and teach the undergraduates. The stipends, scholarships, and hostel fee waivers motivate students to take research as a serious pursuit. And allow students from all kinds of socio-economic backgrounds to afford an education at a place where the focus is on pursuit of knowledge.



“The orientation to innovate and unrelenting curiosity towards the scientific queries is something as important as the technical expertise in a field. It has been an invaluable experience to be able to work under the tutelage of devoted researchers and in company of dynamic colleagues. The ability to initiate a stimulating research atmosphere in conjunction with the high end technical support is something which makes Shiv Nadar University stand out amongst its contemporaries.”

- Dr. Swapnil Shukla
Ph.D. (2017), Department of Chemistry



Research

The Pursuit of Knowledge

Shiv Nadar University is primarily a research institution. Faculty members are chosen through a rigorous selection process, and are hired because of their research profiles. The University's endeavor is to provide a platform for Researchers, Doctoral students, Postgraduate students, and Undergraduate students, where they can strive to create new knowledge. From 2011-16, the University received Extramural Grants of over ₹17.03 crore for more than 52 active research projects, many of which are in collaboration with leading international universities. Researchers include faculty members, post-doctoral fellows, Ph.D. scholars, visiting scholars, and undergraduate students.



“Advances in biology, chemistry, mathematics, and physics promise solutions to many of humankind's most pressing problems - from fighting disease to creating sustainable energy sources. At Shiv Nadar University, we would like a balanced mixture of pursuits of Natural Sciences, Engineering, Management, and Humanities.”

- Prof. Rupamanjari Ghosh
Vice Chancellor, and
Director, School of Natural Sciences

₹17.03 Cr

RECEIVED IN GRANTS
FOR ~52 ACTIVE PROJECTS

₹200+ Cr

INTERNAL RESEARCH
INVESTMENT



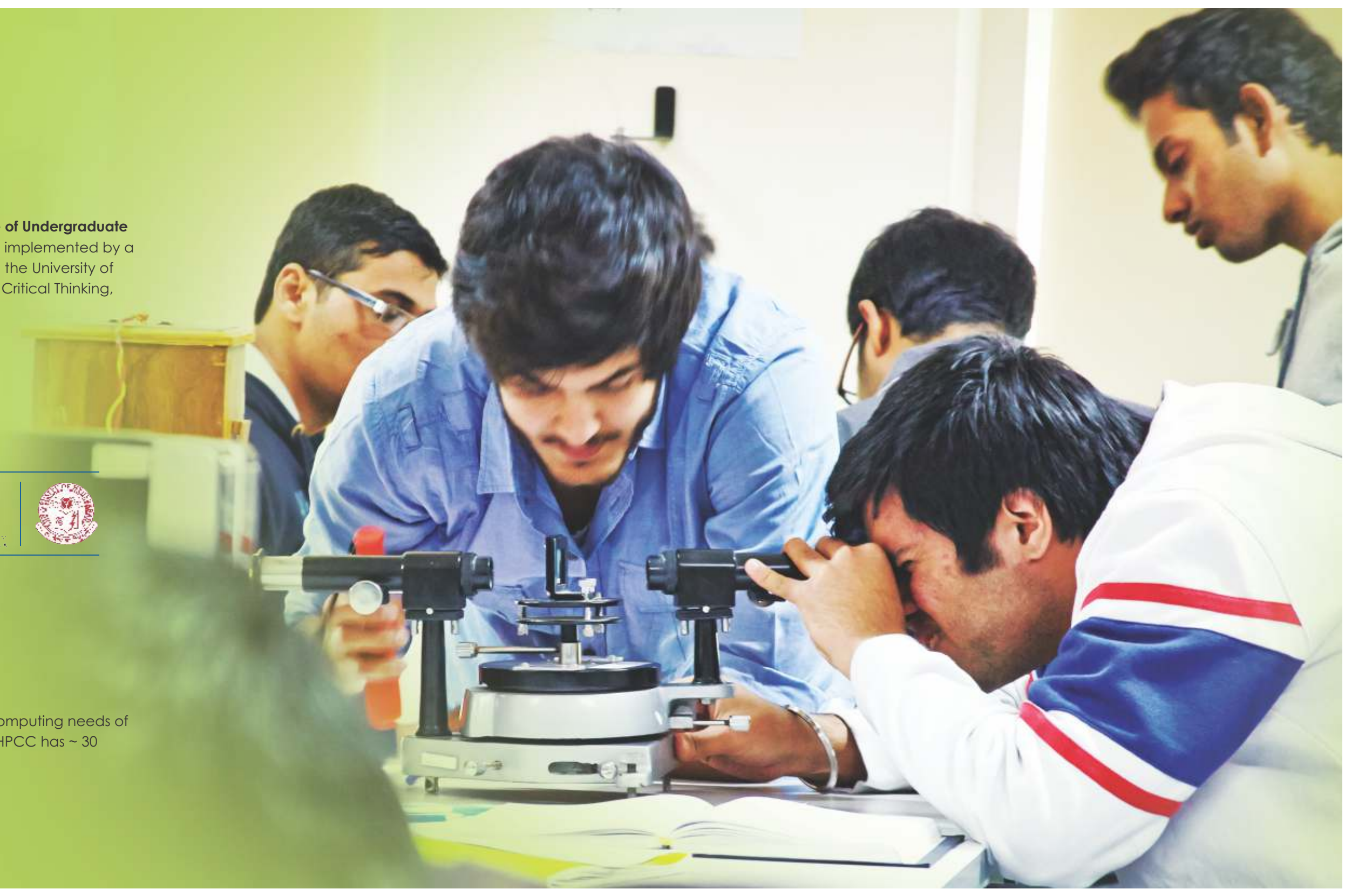
E-QUAL

The University is part of an international collaborative project titled **Enhancing Quality, Access and Governance of Undergraduate Education in India (E-QUAL)**, 2013. Funded by the European Union and British Council, the €1.17 million project is implemented by a consortium of partners including Ambedkar University, Jadavpur University, King's College, Shiv Nadar University, the University of Bologna, and the University of Hyderabad. The project activities are being implemented in four key disciplines - Critical Thinking, Cultural Studies, Human Ecology, Natural Resource Management & Sustainable Development.



High Performance Computing Cluster

Shiv Nadar University has 'Magus' - a High Performance Computing Cluster (HPCC), designed to facilitate the computing needs of research projects and complex computing simulations undertaken by the various schools of the University. The HPCC has ~ 30 TeraFlops of Theoretical Peak Performance from a total of 62 Compute Nodes.



Pushing the Boundaries of Research

- Research on antibiotic drug resistance
- Combating Mercury Poisoning
- Research on Cancer
- Research on Malaria
- Materials for Solar Energy Application
- Research on Renewable Energy
- Giving New Life to Batteries
- Investigating a 2000 Year Old Technology
- The Social Life of Arsenic
- Inside India's *Mandis*
- The Paradox of Declining Education
- The Evolution of Social Networks

Publications and Projects (2011-2016)

Books and Chapters	Journal Articles	Conference Papers and Presentations	Exhibitions and Performances
~111	~419	~513	~99



Global Collaborations

Shiv Nadar University believes that global collaboration can give birth to new knowledge. The University has active partnerships with the **University of Pennsylvania, Babson College, Carnegie Mellon University, Duke University, Queen's University, Belfast, and Network n+i Institutions, France.** These partnerships cover joint research projects, semester exchange programs, joint degree programs, and curricular and academic support.

Shiv Nadar University - Duke University

The SNU-Duke collaboration has opened up many avenues for students and faculty. These include the Semester Abroad program for a Global Semester at Duke's vibrant campus in Kunshan, the Duke Talent Identification Program (Duke-TIP 2015) at the Shiv Nadar University campus, and various research collaborations between the faculty members.

Interdisciplinary Research Collaborations: Shiv Nadar University, Trinity College of Arts and Sciences - Duke University, and Duke Global Health Institute

The four projects under the pilot Shiv Nadar University-Duke Research Collaboration Initiative are:

Project: Shiv Nadar University-Duke Global Writing Partnerships and Cross-Cultural Exchanges

Faculty collaborators: Denise Comer (Duke University) and Anannya Dasgupta (Shiv Nadar University)

Project: Development of Composite Ceramic - Silver and Red Mud Water Filters to Control Biological and Arsenic Contamination in Drinking Water

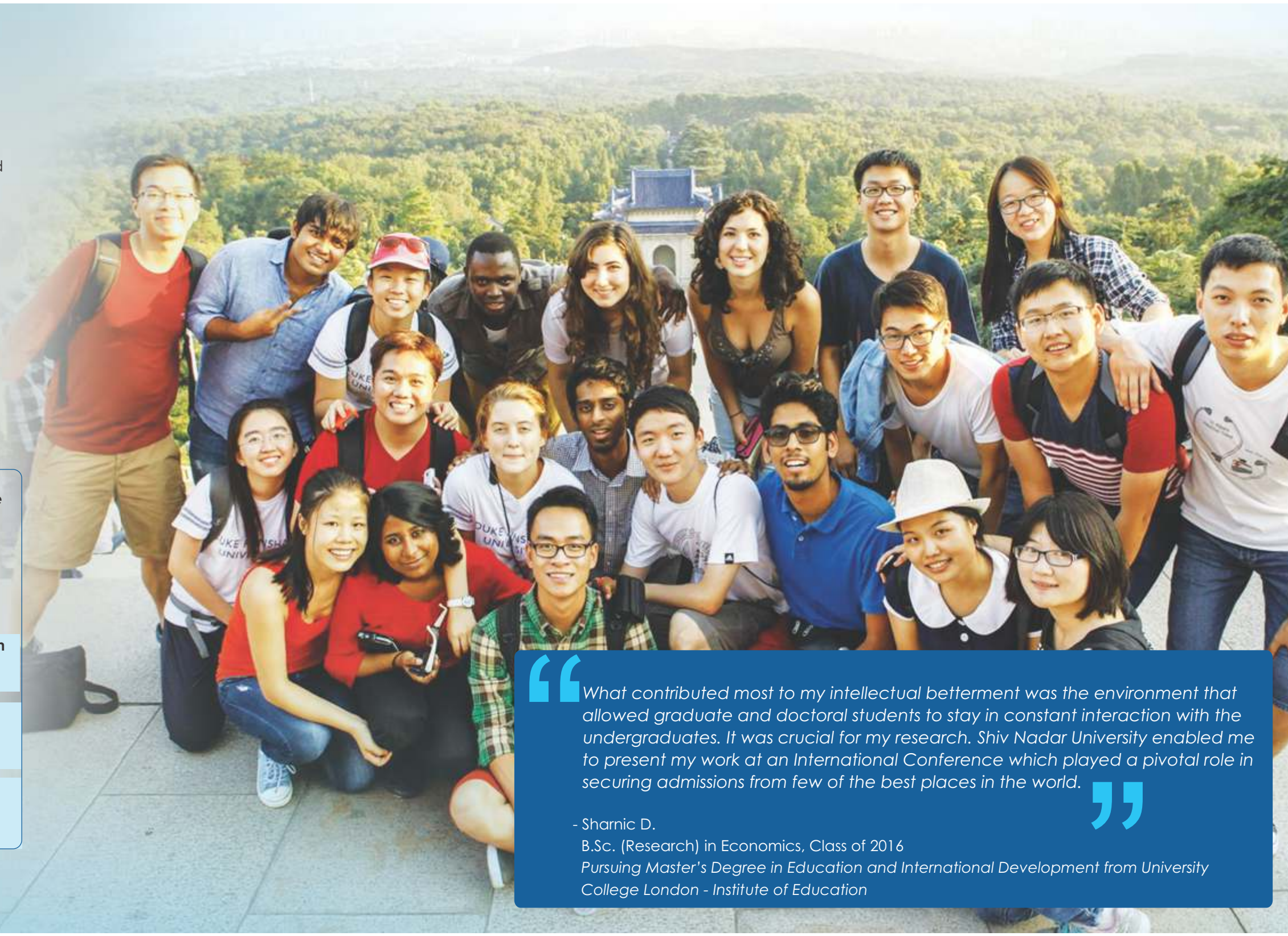
Faculty collaborators: Marc Deshusses (Duke University) and Susanta Sinha Roy (Shiv Nadar University)

Project: Role of Cell Wall Hydrolases in Biofilm Formation of Staphylococcus Aureus

Faculty collaborators: Richa Priyadarshini (Shiv Nadar University), Vance G. Fowler (Duke University), and Batu K. Sharma Kuinkel (Duke University)

Project: Safe Spaces for Women to be Physically Active in Greater Noida City: A Mixed Method Approach

Faculty collaborators: Prasad Pathak (Shiv Nadar University), Gatha Sharma (Shiv Nadar University), Neha Pagidipati (Duke University), and Truls Ostbye (Duke University)



“What contributed most to my intellectual betterment was the environment that allowed graduate and doctoral students to stay in constant interaction with the undergraduates. It was crucial for my research. Shiv Nadar University enabled me to present my work at an International Conference which played a pivotal role in securing admissions from few of the best places in the world.”

- Sharnic D.
B.Sc. (Research) in Economics, Class of 2016
Pursuing Master's Degree in Education and International Development from University College London - Institute of Education

Infrastructure to Empower Education

A world-class university requires top-class infrastructure. Shiv Nadar University has invested close to ₹1500 crore on its sprawling 286-acre campus that boasts of 6 academic wings, an Advanced Research Complex, 154 state-of-the-art laboratories and studios, 9 student hostels, 2 dining facilities, more than 20 sports courts, 2 fully-equipped gymnasiums, and an Indoor Sports Complex. It is also the first private and the fifth institution in the country to have a High Performance Computing Cluster (HPCC). The buildings in the University are environment friendly, and LEED Gold Certified. Soon the university will add a Faculty Residence Complex and new academic blocks. Staying true to our promise of environmental consciousness, 30% of the energy requirement for the campus will be met by solar power.

6

ACADEMIC
WINGS

20+

SPORTS FACILITIES FOR BASKETBALL,
SQUASH, BADMINTON, TENNIS, BILLIARDS,
TABLE TENNIS, YOGA HALL

286

ACRE CAMPUS



“

With excellent faculty, amazing infrastructure and a clean and beautiful campus, Shiv Nadar University makes the four years of your life very memorable. This place helps you develop your personality, become more focused on your goals, teaches you a variety of skills and ensures that your time spent here is meaningful and enriching.

- Harsha Vytla
B.A. (Research) in English, Class of 2019

”



Accolades and Awards

The efforts of our faculty and students have been duly recognized by many national and international platforms.

Snapshot of Awards Received

Faculty members:

- DBT Innovative Young Biotechnologist Award
- INSA Medal for Young Scientist
- DBT Ramalingaswami Fellowship
- DST Inspire Faculty Award
- INSA Aryabhata Medal
- Rajiv Gandhi Gold Medal
- Indus Foundation Award for Research Excellence
- Recognition amongst 100 Most Influential Directors of India

Students:

- Bhaskara Advanced Solar Energy Fellowship Award
- Ph.D. Research Award
- Best Poster Presentation
- Travel Grants
- Charpak Scholarship of Excellence
- Erasmus Mundus Scholarship

University:

- Recognition as 'University of the Year' (in existence for less than 10 years) by FICCI
- Best Avant-Garde Institution by CII
- The University of the Year by the PHD Chamber of Commerce and Industry
- The Best Emerging Global University of the Year by Careers 360 Magazine



“ I always think that research is a powerful tool to solve the problems of the society. For me, my research must have a social impact. ”

- Dr. Gouriprasanna Roy
Assistant Professor, Department of Chemistry

Schools at Shiv Nadar University

School of Engineering (SoE)

SoE is a pioneering effort in the field of engineering, and aims to provide a world-class learning experience in the discipline. With innovative and engaging teaching methods, the school endeavors to hone engineers who not only specialize in their core discipline but are also capable to shoulder leadership responsibilities in the 21st century. At SoE, students are trained through a carefully customized curriculum, developed in consultation with industry and academia. The School combines research and education at the undergraduate level, providing students a well-rounded experience. Each program at the School has been carefully customized in consultation with the industry and the academia to provide the best mix of theoretical and practical knowledge. There are 54 state-of-the-art laboratories in SoE. The School has global collaborations with Carnegie Mellon University.

The school has five departments: Computer Science and Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Chemical Engineering. It offers **B.Tech.** and **Doctoral Programs** in Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, and Mechanical Engineering.



“ We have set up different departments to prepare students for a fast changing world where global boundaries are fast disappearing. ”

- Prof. Girish Agrawal
Associate Director (Strategy and Planning),
School of Engineering, and
Head, Department of Civil Engineering



“ In any industry, where engineers are required, they have to deal with the workforce, understand their psychology and the company's economics. Thus, allied courses like Psychology, Sociology, Economics, and Management become important when it comes to understanding different facets of an industry, and that's where a multidisciplinary approach helps. ”

- Prof. Dinkar Prasad
Associate Director (Academics), School of Engineering, and
Head, Department of Electrical Engineering



School of Humanities and Social Sciences (SoHSS)

SoHSS offers an undergraduate curriculum that is unique and unprecedented in India. The School offers diverse areas of study. Students develop valuable communications skills, explore culture, and history, and learn to critically examine their society and the world. At SoHSS, research, teaching, and creative activities go hand in hand to enable students to become engaged, critical thinkers. The curriculum is designed to allow students to specialize in a particular subject while also studying and experimenting with a wide range of other elective subjects.

The School has eight departments: Art, Design & Performing Arts, Communications, Economics, English, Education, History, International Relations & Governance Studies, and Sociology. The School houses the Center for Public Affairs and Critical Theory and the Center for Emerging Societies. It offers undergraduate, post-graduate and doctoral programs for students to explore the liberal arts.

SoHSS offers **B.A. (Research)** programs in English, History, Sociology, and **B.Sc. (Research)** program in Economics. At the post-graduate level, the school offers **Masters'** in English, Economics and Sociology; Master of Fine Arts (MFA); MFA in Film and Television; and **PG Diploma** in Theatre for Education and Social Transformation (T.E.S.T.) for working Professionals. **Doctoral Programs** are offered in the departments of English, Economics, and Sociology.



“The University is a place where knowledge is created. We are on self-learning curve every day, and there are new things to be learnt. Therefore, not just by design but the sheer interaction that we have is germane to what is reflected into the curriculum, and into the interdisciplinary work that we do.”

- Prof. Ajay Dandekar
Director, School of Humanities and Social Sciences, and
Center for Public Affairs and Critical Theory



School of Management and Entrepreneurship (SoME)

SoME aims to develop organizational leaders by going beyond traditional management learning and focusing on skills, values, and attitudes. Rural experiential program, skill building workshops, and widespread industry exposure help students to achieve a holistic perspective. The school also works in close collaboration with Babson College, widely acknowledged as the world's foremost center for entrepreneurial learning. In keeping with global trends, SoME is entering domains such as Social Network Analysis, Data Environment Analysis in Supply Chain Management, and IPOs.

The school offers **Bachelor of Management Studies (BMS)**, **I-Global MBA**, and an **Executive Ph.D.** Program. The Doctoral program for executives is identical to the full-time, residential Ph.D. with no relaxation in any of the academic requirements. The program is designed for working full-time managers and leaders, who do not wish to leave their job while pursuing their Ph.D.

School of Extended Education and Professional Development (SoEEDP)

SoEEDP's mission is to present best-in-class knowledge, practices and skill development courses to the rapidly expanding ecosystem of learners and leaders both within and outside the University. The School focuses on three segments of learning:

- **Executive Education & Leadership Development programs aimed at business, government and social sector organizations**
- **Continuing Education, Professional Certification and Skill Building courses for individuals and organizations interested in enhancing employability and job performance**
- **Novel University Extension courses on topics of interest to a broader community of adult learners**

Courses and programs are of varying duration based upon the needs of the learner markets served, ranging from certificate or diploma courses to degree programs. All such offerings blend the use of traditional in-class pedagogy and experiential learning with the latest enabling instructional technologies.



“ We want our students to understand global technology trends and business best practices, so that they can become the charioteers who guide us through a rapidly evolving future. ”

- Prof. Shubhro Sen
Director, School of Management and Entrepreneurship, and
Founding Director, School of Extended Education and Professional
Development

School of Natural Sciences (SoNS)

SoNS has four major Departments: Chemistry, Life Sciences, Mathematics, and Physics. It also houses the Big Data Analytics Center (BDAC), Center for Informatics, the Institute for Innovations & Inventions with Mathematics & IT (IIIMIT), and the Center for Environmental Sciences and Engineering. The undergraduate, masters and doctoral programs have been designed following Shiv Nadar University's philosophy of interdisciplinary and research-led learning. A Bachelor of Science (Research) student, apart from taking his / her major courses in SoNS is expected to take a broad-range of courses from Natural Sciences, Engineering, Humanities & Social Sciences, and Management & Entrepreneurship to fulfill the credit requirements of the undergraduate program at the University.

In the student-centric, active style of education at SoNS, the students 'learn by doing', and thus develop the essential employability skill of creative problem-solving. The School offers specializations in tune with the needs of industries or research.

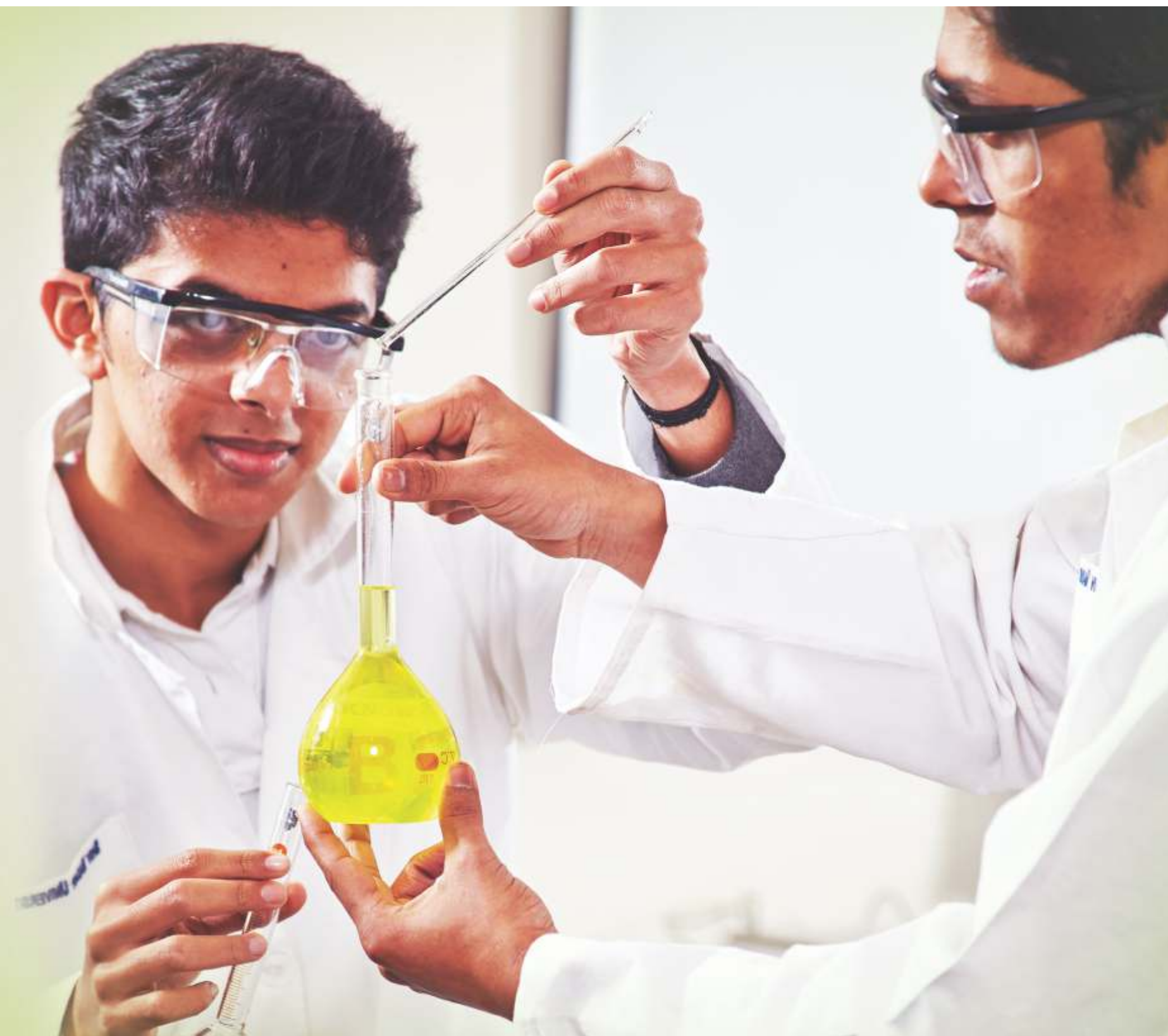
SoNS has a vibrant seminar program. The state-of-the-art laboratories and computational facilities of SoNS match international standards. Shiv Nadar University's academic collaborations with Duke University, Carnegie Mellon University, and University of Pennsylvania help the students to have a global exposure and understanding, widening the horizon of their development.

The School offers **B.Sc. (Research)** programs in Biotechnology, Chemistry, Mathematics and Physics, along with **Masters'** in Mathematics and Data Analytics, and **PG Diploma** in Business and Data Analytics. **Doctoral Programs** are offered in Physics, Chemistry, Mathematics, Life Sciences/Bioinformatics.



“ We teach Mathematics as an activity, as part of society. Undergraduates learn to become independent thinkers, with a choice of specializations and a final research project. ”

- Prof. Amber Habib
Dean of Undergraduate Studies, and
Head, Department of Mathematics



Departments and Research Centers

Programs 2017-18

Schools, Departments & Centers	Undergraduate	Masters	Doctorate
School of Engineering			
Chemical Engineering	✓		✓
Civil Engineering	✓		✓
Computer Science & Engineering	✓		✓
Electrical & Electronics Engineering	✓		✓
Mechanical Engineering	✓		✓
School of Humanities & Social Sciences			
Art, Design & Performing Arts		✓	
Communication		✓	
Center for Public Affairs & Critical Theory		✓*	
Economics	✓	✓	✓
Education		✓	
English	✓	✓	✓
History	✓		
International Relations and Governance Studies		✓*	
Sociology	✓	✓	✓
School of Management & Entrepreneurship			
	✓	✓	✓
School of Natural Sciences			
Big Data Analytics Center		✓	
Chemistry	✓		✓
Life Sciences	✓		✓
Mathematics	✓	✓	✓
Physics	✓		✓

* forthcoming



Research Centers

Big Data Analytics Center

Center for Emerging Societies

Center for Environmental Sciences and Engineering

Center for Informatics

Center for Public Affairs & Critical Theory

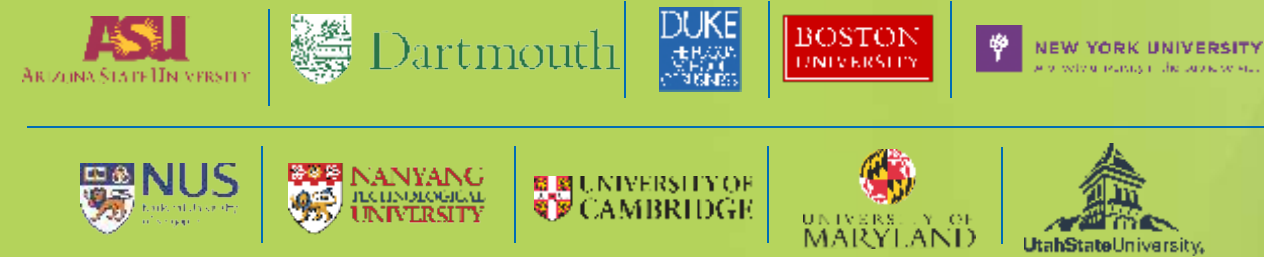
Institute for Innovations & Inventions with Mathematics and Information Technology

Career Development Center (CDC)

The Career Development Center supports students in shaping and managing their careers effectively by helping them identify career choices, providing insights into the latest industry trends, arranging industry conclaves, industry visits, and boot camps. CDC services include Annual Online Assessment and 360 degrees feedback.

CDC also provides a unique mentorship program, wherein successful professionals from various organizations are handpicked to train undergraduates through a year-long engagement.

The first two batches graduated in 2015 and 2016, of which, 31 and 30 students respectively were selected for further studies at leading universities like Columbia, Boston, New York, Georgetown, University of Massachusetts, Nanyang Technological University, National University of Singapore, and Dartmouth College among others.



Apart from that 96% of the 2015 Batch received job offers from leading multinational companies including Cognizant, Larsen & Toubro, Amazon and PricewaterhouseCoopers. In 2016, over 91% students were hired by recruiters such as Dell, HP R&D Lab, AIS Glass, Kalpakaaru Projects, Axis Bank, and Bank of America.



A Robust Career Development Center

- Mentorship
- Career Guidance and Counseling
- Industry Placements
- Academic Placements

Life on Campus

As a residential University, it has well-equipped laboratories, smart classrooms, and a state-of-the-art library. In its pleasant surroundings, students from across India share their experiences and values, and gain an understanding of different cultures. Students engage in activities beyond the classroom in team-based projects. They form clubs and societies, organize festivals and events, participate in University administration, take up social projects around the campus, and pursue sports and hobbies.

There are currently over 30 vibrant student societies, ranging from the curriculum related Robotics Club to the Photography Society, which also conducts popular Photo Walks in areas around Delhi. The University's fully functioning film appreciation society keeps the University community in touch with cutting edge world cinema, while the Queer Collective was in the news for designing a beautiful rainbow tree.

Some of the Societies, Clubs and Chapters

- SNU Model United Nations Society
- Physics Society
- SNU IEEE - Student branch of Institute of Electrical & Electronics Engineering
- Orion - SNU Civil Engineering Society
- American Society of Mechanical Engineers (ASME) - SNU Chapter
- American Society of Civil Engineers
- SPIC MACAY SNU Chapter
- FACTion - the quiz society
- Roboyantriki - the robotics club
- SNUphoria - the music society
- Invictus - the dramatics society
- Go Green Club
- Infernos - the dance society
- Words.Ink - the literary society



“There are more than 30 societies that include not only the cultural but technical clubs as well. These clubs are very active and schedule many activities for students every week.”

- Dr. Tulika Chandra
Dean, Students' Welfare, and
Associate Professor, Department of English



Learning and Academic Support Center (LASC)

LASC assists students to develop the skills, and strategies they need to become confident, independent, and active learners. It helps students meet the challenges of the University's rigorous academic standards. By providing a learning environment, and an experience that differs from the classroom, it focuses on high-quality individual, and small-group, student-centered, and student-led learning. The Center's tutoring staff provides instructional approaches that are tailored to the skill levels, and learning styles of students. LASC encourages students to take responsibility for their academic success.



“Shiv Nadar University is a great place brimming with enthusiasm and opportunities. With world-class faculty by their side, I would urge students to make the most of their time at the University.”

- Dr. Ashish Gupta
Assistant Professor, Department of Life Sciences



Getting into the University

Earn a place at Shiv Nadar University

The university believes in complete merit-based admission, with no management quotas or other preferential admission. Only the best and brightest undergraduate candidates are selected from the pool of applicants, after a thorough evaluation of their quantitative ability, abstract reasoning, and communication ability through a specially designed Scholastic Aptitude Test (SNUSAT). They also go through an Academic Proficiency Test (APT) for testing subject knowledge for the majors they might be interested in. For admissions into the graduate programs (Masters and Doctoral), respective departments follow their own process to evaluate the applicants, and truly meritorious students get admission.

Financial Assistance and Scholarships

Shiv Nadar University offers generous support to students of exceptional merit. In 2016-17, the university provided scholarships worth ₹31.8 crore to undergraduate students, and scholarships, and stipends worth ₹15 crore to postgraduate, and doctoral students. Over 85% of the undergraduates receive financial aid, while 90% of the postgraduate, and doctoral students receive stipends, and full tuition fee waivers. In addition, the University also offers On-Campus Jobs to its students.

1:10
FACULTY
TO STUDENT
RATIO

85%+
STUDENTS
PROVIDED WITH
SCHOLARSHIPS
AND STIPENDS

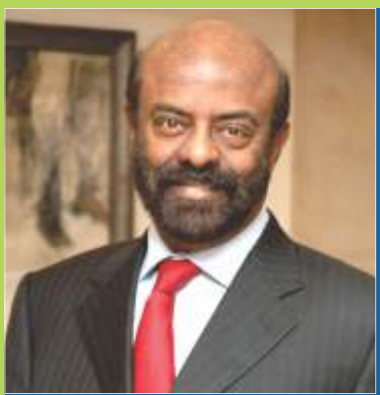
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PROVIDED AS
SCHOLARSHIPS
(2016-17)



“Every day at Shiv Nadar University is new and exciting. The unique thing is the academic freedom to move between disciplines.”
- Prof. N. Sukumar
Professor, Department of Chemistry

Leadership

Mr. Shiv Nadar



Founder and Chairman HCL and Shiv Nadar Foundation

Acknowledged as a visionary by the IT industry, Mr. Shiv Nadar has been a pioneer and a frontrunner of the IT sector in India. In 1994, Mr. Nadar established the Shiv Nadar Foundation to empower individuals to bridge the socio-economic divide and create a more equitable, meritocracy-based society primarily by providing quality education.

Dr. Rupamanjari Ghosh



Vice Chancellor Director, School of Natural Sciences, and Dean, Research

Before joining Shiv Nadar University, Dr. Ghosh was at JNU for 23 years where she served as Dean, School of Physical Sciences; Director, Academic Staff College; Founding Member, Standing Committee on Alumni Relations & International Linkages; Chairperson, Gender Sensitization Committee against Sexual Harassment. A Rush Rhees Fellow at the University of Rochester, for "outstanding scholarly ability and the promise of exceptional contributions to scholarship and teaching", and a renowned Quantum Optician, she holds prestigious Visiting Scientist positions on invitation abroad. A recipient of the Stree Shakti Science Samman for her "original contribution to Science", she serves as an expert in crucial DST (GoI) committees in Physical Sciences, and has guided high-school science training as the Chief Advisor for NCERT textbooks. Dr. Ghosh has B.Sc. (Physics honors) and M.Sc. (Physics) degrees from the University of Calcutta, and a very well-recognized Ph.D. from the University of Rochester, New York.

Dr. S N Balakrishnan



Chancellor and Chairperson - Executive Council

Dr. Balakrishnan is Curators' Professor of Aerospace Engineering, Missouri University of Science and Technology, USA. He has held many leadership positions at international conferences and technical societies. He has successfully formulated a new approach to guidance and control called Integrated Guidance and Control (IGC). He is a pioneer in intelligent control and has developed optimal control and filters solutions to spacecraft, helicopter, missile, aircraft, manufacturing and MEMs problems and implemented them. Dr. Balakrishnan also heads IST Rolla, an engineering firm focused on providing clients with the very best in research, development and technology. He is associated with the American Institute of Aeronautics and Astronautics (AIAA) and Sigma Gamma Tau. Dr. Balakrishnan has published more than 250 journal articles and conference papers. He holds a Ph.D. in Aerospace Engineering from the University of Texas at Austin.

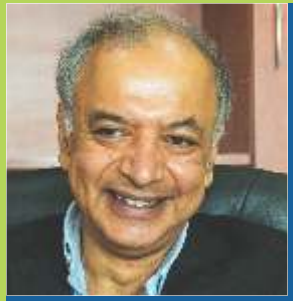
Mr. Rajiv Swarup



President

Mr. Swarup heads all non-academic functions at Shiv Nadar University including Admissions, Finance, HR, IT, Marketing and Campus Infrastructure. With nearly four decades of corporate experience in incubating, managing and developing both the strategic & operational aspects of large businesses, Mr. Swarup superannuated from HCL America as Senior Corporate Vice President and Chief Customer Officer – Strategic Accounts. He had a fruitful career with HCL Technologies spanning 13 years, working with Software, Engineering and BPO divisions at senior positions. He managed an annual business of \$250 Million and 6000 people, set up and incubated several Development Centers around the globe and was last based in the USA to manage the then largest Global Engineering Outsourcing engagement for HCL. Mr. Swarup did his B. Tech. (Hons) from IIT Kanpur and MBA from the University of Delhi. Mr. Swarup is also a certified Six Sigma Green Belt.

Dr. Shubhro Sen



**Director, School of Management and Entrepreneurship, and
Founding Director, School of Executive Education and Professional Development**

Dr. Sen has a consulting and advisory services portfolio of more than 50 global corporations, including Hewlett Packard, Citigroup, Apple Computer, JP Morgan Chase, Nomura Research Institute, Boston Financial, and Yale University. He is an advisor to the Government of India on education and leadership development and has served on the Agarwal Committee of the HRD ministry. He has also been an advisor to the President's Office, University of South Florida; the Wales Development Authority and the UKTI as well as the governments of Singapore and the Czech Republic. Dr. Sen is a globally recognized authority on Strategic Sourcing as co-founder, and former CEO and Executive Publisher of a dedicated publication and portal on outsourcing in the global financial services sector [FSO magazine].

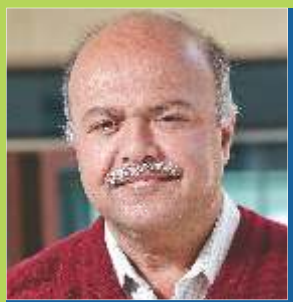
Dr. Dinkar Prasad



**Associate Director (Academics)
School of Engineering**

Dr. Prasad taught in IITs for more than a decade and worked with prestigious industries for nearly fifteen years. He graduated in Electrical Engineering from IIT, Kanpur and joined Tata Motors (then known as TELCO). Later, he did his M.Tech. and Ph.D. from IIT, Kharagpur and briefly taught there before shifting to IIT, Bombay as Assistant Professor in Electrical Engineering Department. He was also a visiting fellow with University of Minnesota, Minneapolis (USA) and during this period he worked on couple of industrial consultancy projects undertaken by Electrical Engineering Department of University. In 2000, Dr. Prasad rejoined IIT, Kharagpur as Associate Professor in Electrical Engineering Department. Later he served as R&D-Head and Senior Director (Technology) in India unit of a multinational company, Emerson (Network Power Division). He has filed 7 patents with Indian Patent offices and has published nearly two dozen papers in reputed journals and conference proceedings.

Dr. Ajay Dandekar



**Director, School of Humanities and Social Sciences, and
Center for Public Affairs & Critical Theory**

Dr. Dandekar is a historian and social scientist. He joined Shiv Nadar University in November 2013 as Professor and Head, Department of History and currently the Director of SoHSS. In addition, he is the Director of Center for Public Affairs & Critical Theory. Dr. Dandekar has earlier taught at the School of Social Sciences, Central University, Gujarat; the Institute of Rural Management (IRMA), Anand; The Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar; Tata Institute of Social Sciences, Rural Campus, and the Department of Archaeology, Deccan College, Pune. Dr. Dandekar traverses the world of historical research and policy analysis. His publications include edited and co-authored books, book chapters, articles and policy papers on a range of issues pertaining to cults, policy and analyses on issues of tribal governance, agriculture, planning, rural development and economy, denotified and nomadic communities etc. He is recipient of many Honours and Awards: International Visitor Leadership Programme, Professor K.T.M. Hegde Fellowship.

Dr. Girish Agrawal



**Associate Director (Strategy and Planning)
School of Engineering**

Dr. Agrawal brings more than twenty years of post-doctoral professional experience with geotechnical engineering design and construction, primarily in California. In addition, he has about eight years of teaching experience as visiting faculty in the School of Civil Engineering at Purdue University, and recently as visiting faculty at IIT Delhi. While a practicing engineer, he regularly conducted seminars / workshops on geotechnical engineering field investigation, design, report preparation, and project management. Dr. Agrawal's professional practice in California was focused on transportation infrastructure projects such as elevated and on-grade highways, interstate freeways, dedicated bus corridors, and metro rail. Other projects include buildings / complexes for educational institutions, museums, aquariums, and city halls. His areas of technical expertise include seismic hazard analysis and mitigation, foundations in difficult soils, ground improvement, slope stabilization, deep foundation design and installation, and direct-push subsurface investigations. He also works on the interrelated questions of law and policy as they pertain to transportation infrastructure development and transportation safety in India.

Dr. Amber Habib



**Dean, Undergraduate Studies, and
Director, Institute for Innovations and Inventions with Mathematics & IT (IIIMIT)**

Dr. Habib did his MS (Integrated) in Mathematics at IIT Kanpur and Ph.D. at University of California, Berkeley. These were followed by postdoctoral positions at the Harish-Chandra Research Institute, Allahabad, and the Bangalore Centre of the Indian Statistical Institute. His research interests are in representation theory and mathematical finance. For over 15 years, he has been involved in efforts to make mathematics education at the school and college level more interesting and fulfilling through special topics, projects, via an appreciation of the myriad links of mathematics with other disciplines. He has served several times as resident faculty for the Mathematical Training & Talent Search program sponsored by the National Board for Higher Mathematics. At Shiv Nadar University, Dr. Habib has relished the opportunity to take part in designing undergraduate and graduate curricula as well as in setting up a Department of Mathematics that truly believes in "unity in diversity".

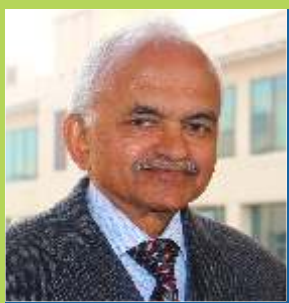
Dr. Tulika Chandra



Dean, Students' Welfare

Dr. Chandra has been actively involved in academics and research for the past 20 years. An M.A., M.Phil. and Ph.D. (Linguistics) from JNU, she is one of the founding faculty member at Shiv Nadar University. A firm believer in gender justice, she has held administrative positions, has been part of various committees, and has held advisory positions. Dr. Chandra has been an editor for in-house publications at the previous workplaces. She takes sessions as a story-teller with the juveniles and children residing in shelter homes. A folklore collector, she is working on an active project: 'Documentation of Folktales through Digitization', and she is translating folktales and folksongs from Braj & Hindi into English. Her area of interest includes Translation Studies, Regionalism and Narratives in Folklore, Folkloristics, Kurukh Tribals of Jharkhand, and English Language Teaching. She received the Faculty Excellence Award 2011-14 at Shiv Nadar University. Her publications include books, book chapters and journal articles.

Dr. J P Gupta



Dean, Graduate Studies

Prof. Gupta did his B.Tech. from IIT Kanpur, MSE from the University of Michigan, Ann Arbor, and Ph.D. from the University of Pennsylvania - all in Chemical Engineering. He served at IIT Kanpur from 1973 to 2010, and was Professor and Head as well as a Member of the Board of Governors for two years. Prof. Gupta was deputed by the Government of India as a Diplomat for Science and Technology at the Embassy of India, Washington DC, USA. He had been a Visiting Professor at the National Autonomous University of Mexico, Mexico City, University of Michigan and Texas A&M University in USA, Loughborough University in UK; National Yunlin University of Science and Technology in Taiwan, and Ecole Nationale Supérieure des Mines d'Alès in France. He was also a United Nations Development Programme Advisor in Argentina. He was the Founding Director General of Pandit Deendayal Petroleum University, Gandhinagar; and Founding Director of Rajiv Gandhi Institute of Petroleum Technology, Raebareli (under the Ministry of Petroleum and Natural Gas).

Mr. Sudhir Naudiyal



Registrar

Mr. Naudiyal is a Post Graduate in Commerce, in Education Management and also has a professional Law degree. With a professional experience of 27 years in educational institutions, he has worked in various capacities including HR, Administration, Legal, and Finance & Accounts. Mr. Naudiyal has proven expertise in handling complex issues involved in running educational institutions, specially related to statutory approval process and compliances within the legal framework; essentially covering all aspects of academic administration. He has worked with the Sushant School of Art & Architecture for 22 years as Deputy Registrar, with Ansal University, Gurgaon as Joint Registrar and Officiating Registrar for 4 years before joining Shiv Nadar University. At Ansal University, he played an important role in a training scheme under NEEM (National Employability Enhancement Mission), a Government of India initiative of skill development for providing on the job training to unemployed youth.