

# SHIV NADAR UNIVERSITY



Shiv Nadar University is a comprehensive, multidisciplinary, student-centric and research-focused University. Through its innovative curriculum and interdisciplinary focus, the University is bringing a paradigm shift in higher education in India. Enabling students to accomplish excellence in their Major while simultaneously pursuing other academic interests through various options under a Minor, the University inculcates critical thinking and problem solving skills. It prepares students to become leaders and decision-makers in the academia, research, industry, business, and policy arenas. The University's source of strength lies in its distinctive feature that provides education in a broad range of disciplines and the ability to go into depth in a particular area.

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 AICTE. The University is currently registered with DSIR, Government of India as a Research Institute.

## MULTIDISCIPLINARY CURRICULUM

The innovative and diverse range of disciplines inculcate an ability to critically examine the problems, and challenge existing assumptions among the students.



## WORLD-CLASS FACULTY

Doctorates, post-doctorates, and inspired practitioners in their area of expertise form the globally acclaimed faculty pool at Shiv Nadar University.



## FOCUS ON RESEARCH

A broad spectrum of research includes basic and applied research, interdisciplinary research, scholarly publications and creative expression. The pioneering Opportunities in Undergraduate Research (OUR) program gives undergraduates a hands-on experience in conducting research under faculty supervision.



## DIVERSE STUDENT BODY

The University is home to best and brightest of the students, who come from 27 States and UTs across India, and bring diversity in culture, talent and perspective to the campus.



## OPEN CULTURE FOSTERING EXCHANGE OF IDEAS

Freedom of inquiry and creation of an intellectual environment conducive to free, open, and respectful exchange of ideas is among the values the University is fostering within its ecosystem.



## GLOBAL COLLABORATIONS

The University has active partnerships with NYU, Duke University, University of Bologna, Heidelberg University, Peking University, Babson College, N+I Network of Institutions, Ontario India Network, Gothenburg University, Deakin University, Wellington Institute & Whitireia New Zealand.



## FULLY RESIDENTIAL PROGRAMS

Fully residential campus with learning avenues outside the classroom has led to formation of around 30 vibrant student societies ranging from curriculum related robotics club to creative interests like photography society.



[www.snu.edu.in](http://www.snu.edu.in)



[admissions@snu.edu.in](mailto:admissions@snu.edu.in)



1800-102-1768

Shiv Nadar University currently offers the following undergraduate programs:

School of Engineering (SoE)

B.Tech. Programs in Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechanical Engineering

School of Humanities and Social Sciences (SoHSS)

B.A. (Research) Programs in English, History, Sociology, and International Relations

B.Sc. (Research) Program in Economics

School of Natural Sciences (SoNS)

B.Sc. (Research) Programs in Biotechnology, Chemistry, Mathematics, Physics

School of Management & Entrepreneurship (SoME)

Bachelor of Management Studies (BMS)

SCHOOL OF ENGINEERING (SoE)

School of Engineering with innovative and engaging teaching methods aims to provide a world-class learning experience. It combines research and education at the undergraduate level, providing students a well-rounded experience. Each program at the School has been carefully developed in consultation with industry and academia to provide the best mix of theoretical and practical knowledge.

A few cutting-edge research projects undertaken by SoE are:

- Investigation and optimization of Jack Jetty and Porcupine Systems for River Restoration
- Design and Development of Bio-inspired Unmanned Underwater Vehicle
- Development of Durable Self-Cleaning Surfaces
- Thin film solar cells to convert solar energy into usable, non-polluting form
- Design and Development of Refrigerator using Phase Change Material Heat Exchanger

The School also offers Masters' in Chemical, Civil, Computer Science & Engineering, Electronics & Communication, and Mechanical Engineering | Doctoral Programs in Chemical, Civil, Computer Science & Engineering, Electronics and Communication, Electrical, and Mechanical Engineering.

“

The dedicated and supportive faculty, rigorous curriculum, engaging co-curricular activities, adequate exposure and most importantly the sheer flexibility given to students make for an experience that cannot be had anywhere else.

”



Arunima Shukla, B.Tech. in Computer Science and Engineering, Class of 2019

“

Gaining knowledge about marketing and management along with studying literature has given me an opportunity to explore both the domains where I can correlate Communication with Marketing in my higher studies.

”



Radhika Tantia, B.A. (Research) in English, Class of 2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES (SoHSS)

The School offers an undergraduate curriculum that is unique and unprecedented in the country. Students develop valuable communication skills, explore culture and history, and learn to critically examine their society and the world. SoHSS engages and collaborates with universities across the globe, for instance, University of Michigan-Ann Arbor and Deakin University.

Some of the projects and activities at SoHSS include:

- 'Mapping urbanization and Social Change in Gautam Budh Nagar' a research initiative that draws upon the expertise of faculty members across the Schools
- Research on Unqualified Medical Practitioners as part of the India's Health system
- Mapping of recollections of Sikkim during the decades of the 1960s and the '70s.
- 'Documentation of Folktales through Digitization' involves collection, classification and interpretation of folk narratives, using traditional methodological and theoretical approaches
- Documentation of the excavations undertaken at Indor Khera in Bulandshahr district of Uttar Pradesh. The project aims to create a digitized archive of the collected data.

The School also offers Masters' in Design, English, Economics, Fine Arts, Water Science and Policy | PG Diploma in Water Science and Policy | Doctoral Programs in English, Economics, and Sociology.





## SCHOOL OF NATURAL SCIENCES (SoNS)

School of Natural Sciences teaches students individual disciplines in depth while encouraging cross-disciplinary thinking. Students are taught to be well equipped for successful careers in academia and industry.

### Some examples of cutting-edge research at SoNS are:

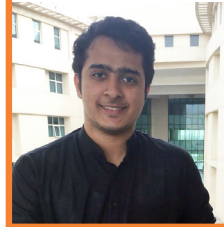
- Discovery of a compound that can help reverse environmental mercury poisoning by converting the heavy metal from a toxic, volatile and soluble organic form (as a pollutant) into a safer, inert and stable form
- Creation of a new combination of polymers that can be used as a hydrogel to make the process of wound healing faster
- Finding newer and economical modes of Cancer treatment and development of targeted therapy as potential substitute for chemotherapy
- Development of chemotherapeutic against deadly and widely prevalent Cerebral Malaria
- Research towards seeking potential drugs to treat psychiatric disorders and neurodegenerative diseases

*The School also offers Masters' in Mathematics | Doctoral Programs in Chemistry, Mathematics, Physics, Life Sciences/Bioinformatics.*

“

The faculty members here are always approachable and don't mind answering even some of our silliest doubts. This made me love and enjoy different fields in mathematics.

”



**Abhijit A.J.,**  
B.Sc. (Research)  
in Mathematics,  
Class of 2020.

“

The curriculum is designed to prepare us for the real corporate world outside. The culture and the multi-disciplinary program has enhanced my personality and has given me the confidence to undertake new adventures and responsibilities.

”



**Devanshi Mehrotra,**  
BMS, Class of 2020

## SCHOOL OF MANAGEMENT & ENTREPRENEURSHIP (SoME)

The School develops organizational leaders by focusing on skills, values and attitudes, besides strengthening the knowledge component. SoME prides itself in conducting leadership practicums for its students to develop and hone leadership skills through its rural experiential program and skill building workshops. The School also conducts comprehensive industrial visits to understand the Industry Best Practices. SoME has a collaboration with Babson College, which is globally known for its entrepreneurship programs.

The Bachelor of Management Studies (BMS) program offered by SoME provides its selected cohort of students with a strong foundation of specialized knowledge, experiential learning and opportunities for early global exposure. It is aimed at producing well rounded global citizens who have a broad multidisciplinary base of knowledge and a 'worldview' – Shiv Nadar University's special differentiator – along with depth and specialization in several job-oriented and 'in-demand' areas in Management. The goal is to give students the best of both worlds – versatility that prepares them for any career including higher education and targeted acceleration into chosen career tracks.

*The School also offers I-Global MBA and Doctoral Programs in Management.*

## SCHOOL OF EXTENDED EDUCATION AND PROFESSIONAL DEVELOPMENT (SoEEPD)

SoEEPD's mission is anchored in the twin ideas of enabling high value 'lifetime learning' and harnessing the very best of Shiv Nadar University's rich intellectual resources. This learning is through multiple technologies, learning pedagogies and global partnerships. The guiding endeavor is to cultivate a love for learning even while making it practical, career oriented and of lasting value.

*The School offers Executive MBA, professional certification, degree programs and diplomas in a variety of fields.*



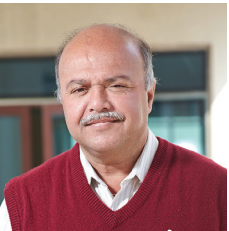






**DR. C V Tomy**, Director, School of Natural Sciences

Prof. Tomy completed his M.Sc. in Physics from IIT Madras in 1984 and received his Ph.D. from the Tata Institute of Fundamental Research, Mumbai in 1991. He was selected for the prestigious Alexander von Humboldt fellowship and worked at the University of Koln, Germany for over a year. He then moved to Warwick University, Coventry, UK as a research fellow, and subsequently accepted a visiting faculty position at IIT Kanpur. He joined IIT Bombay in December 1998 as an Assistant Professor in Physics, and rose to become a Professor and then Head of the Department of Physics and Institute Chair Professor. Prof. Tomy’s research interest include experimental condensed matter physics, and in particular, in magnetism and superconductivity at low temperatures. He has published over 140 papers in international journals, and guided several Ph.D. students.



**DR. AJAY DANDEKAR**, Director, School of Humanities and Social Sciences; and Director, C-PACT

Dr. Dandekar is a historian and social scientist. He joined Shiv Nadar University in November 2013 as Professor and Head, Department of History, Shiv Nadar University. Dr. Dandekar has earlier taught at the School of Social Sciences, Central University, Gujarat; the Institute of Rural Management (IRMA), Anand, and at the Tata Institute of Social Sciences, Mumbai. Dr. Dandekar traverses the world of historical research and policy analysis. His research interests include early medieval history; issues in the arena of resources and conflicts; agrarian crises; rights of DE notified and nomadic communities and their context; pastoralism and pastoral nomadism in South Asia in relation to state formation processes.



**DR. SHUBHRO SEN**, Director, School of Management and Entrepreneurship; and Founding Director, School of Extended 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. AMBER HABIB**, Dean, Undergraduate Studies

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, and 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.



**DR. TULIKA CHANDRA**, Dean, Students' Welfare

Dr. Chandra has been actively involved in academics and research for the past 20 years. She is an M.A., M.Phil. and Ph.D. (Linguistics) from JNU. A firm believer in gender justice, she has held administrative positions, part of various committees, and held advisory positions. She takes sessions as a story-teller with the juveniles and children residing in shelter homes. A folklore collector, she is working on: 'Documentation of Folktales through Digitization', and she is translating folktales and folksongs from Braj & Hindi into English. She received the Faculty Excellence Award 2011-14 at Shiv Nadar University.



**MR. SUDHIR NAUDIYAL**, Registrar

Mr. Sudhir Naudiyal is a Post Graduate in Commerce, in Education Management and also has a professional Law degree. With a professional experience of 28 years in educational institutions, he has worked in various capacities including in 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.

## SHIV NADAR UNIVERSITY EDGE

All students, regardless of the degree they are pursuing are required to participate in research or activity to produce new knowledge or creative works. Through Opportunities for Undergraduate Research (OUR) Program, University promotes research beyond the regular curriculum. Currently 101 projects are underway. Shiv Nadar University's mission is to create knowledge and not just disseminate it. The innovative curriculum allows for varied Major and Minor combinations across the Schools. Diversity in learning is integral to the University's excellence, for instance, one of the engineering students went through a transformational journey to change his academic direction from B.Tech. in Mechanical Engineering to B.A. (Research) in English. He received an admission offer for pursuing M.Phil. in Social Anthropology from one of the most prestigious universities in the world. The pillars of Shiv Nadar University are its stellar faculty drawn from globally renowned universities, they are all Doctorates, Post-Doctorates and exceptional practitioners in their area of expertise.

### Some of the innovative courses offered by the university include:

- Academic and Creative Writing
- Art and Science of Natural Colors
- *Odissi Nrutya Paddhati*
- Image and Sound Studio
- Society and Technology
- Literature Identity Theater

Shiv Nadar University encourages an informal student-faculty interaction that naturally flows outside of the classroom. Faculty-driven and student-centric, the University is proud of its Human Capital.

“

I was interested in experimental research and started working on opto electronic properties under the OUR (Opportunities for Undergraduate Research) Program, which really helped me get a three months internship for a research project in Okinawa Institute of Science and Technology, Japan.

”



**Kasturie Jatkar,**  
B.Sc. (Research)  
in Physics,  
Class of 2018.

## CAREER DEVELOPMENT CENTER

The Career Development Center (CDC) at Shiv Nadar University actively supports students, helps inculcate employability skills and makes them industry ready. CDC works closely with the students on defining a career chart for them and organizes various activities and workshops. Simultaneously, it collaborates with the Industry to provide the students an Insight into latest industry trends. CDC provides a unique mentorship program for the students. Industry Mentors are handpicked successful professionals from various walks of life who take a small group of undergraduates 'under their wings' and embark upon a year-long engagement with them. The emphasis is on internships and summer trainings to provide the best experiential learning to all the students, complementing the knowledge gained in the lecture hall. Three batches have graduated from the University since 2015, of which, many students were selected for further studies at leading international universities like Cambridge, Columbia, Northwestern, Boston, New York, Georgetown, University of Massachusetts, Nanyang Technological University, National University of Singapore, and Dartmouth College among others. Some of the top recruiters at the campus include Cisco, Tata Projects, Amazon, LG, Airtel, Ericsson, Adobe, Cognizant, Larsen & Toubro, PricewaterhouseCoopers, HP R&D Labs, AIS Glass, Dell, and Bank of America. In 2017, more than 63 companies such as Dell, Adobe, Deloitte, Axis Bank, Dreamworks Animation, Mankind Pharma, ZS Associates, and Piramal Foundation rolled out offers to 96% of the graduating batch.

## ADMISSION, FINANCIAL ASSISTANCE AND SCHOLARSHIP

Over 85% of Shiv Nadar University's 1828 undergraduate and 186 postgraduate students received some form of scholarship or financial aid, and all 169 doctoral scholars received stipends and full tuition fee waivers. In addition, Shiv Nadar University offers 'On-Campus Jobs' to its students. It is a unique work experience for students; they get an honorarium and learn professional skill-sets. Admissions to Shiv Nadar University are on the basis of merit, with no management quota or other form of preferred admissions. The best and brightest candidates are selected through scientifically developed selection method. Apart from the Class XII scores, the University evaluates students for their quantitative ability, abstract reasoning, verbal and writing ability through a specially designed Shiv Nadar University Scholastic Aptitude Test (SNUSAT). Similarly, candidates are evaluated on their subject knowledge through the Academic Proficiency Test (APT).

# SHIV NADAR UNIVERSITY

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