This Report covers the Academic Year 2012-13
July 2012 to June 2013
Contents

The Founder .................................................................................................................. 1
Message from the Founding Vice Chancellor ......................................................... 2
Highlights ................................................................................................................. 6
The University .......................................................................................................... 15
Officers of the University ....................................................................................... 17
Governance ............................................................................................................. 18
Faculty .................................................................................................................... 21
Achievements .......................................................................................................... 23
Events at the University ......................................................................................... 30
Students .................................................................................................................. 33
Infrastructure and Facilities .................................................................................... 42
International Collaboration ...................................................................................... 45
Annexures ................................................................................................................ 47
Faculty Publications ................................................................................................. 48
Financials ................................................................................................................ 66
“The 21st Century is presenting new challenges to societies, governments, and organizations around the globe. Disciplines such as the sciences, humanities, engineering, art, law, medicine etc. must not exist in silos, but must be presented holistically to these young minds for their learning and development. That is what the future will demand of these young men and women, and that is what we must equip them with.

I believe that the Shiv Nadar University with its stellar faculty, global curricula, world class pedagogy and a diverse pool of young minds is well equipped to respond the needs of new-age higher education and will play a key role in transforming education in this country and create true leaders for the future.”

Shiv Nadar
Founder & Chairman, Shiv Nadar Foundation
2012 was an important year for SNU as we began to give shape to the University's multidisciplinary and interdisciplinary structure. We added new degree programs in Natural Sciences and also started graduate programs in disciplines of Natural Sciences as well as in the existing School of Engineering. In line with our mission to provide world class education, we partnered with Carnegie Mellon University, Duke University and the Annenberg School at the University of Pennsylvania to launch innovative degree programs and to set up research centers.

SNU faculty also began the process of launching the University's research programs and many of them had significant publications in leading journals in the field. We have already laid out the plan for a Career Development Center for Students, as well as a Faculty Development Center.

We will continue our efforts to put the University on the path to excellence with the aim of becoming the leading research-led university in India and among the best in the world. Some of the key achievements of the year have been:

1. Schools and Programs: The University added new UG and PG programs in the various schools. These are:
   a. Masters and/or Ph.D. programs were added in the five departments of the School of Engineering in the academic year 2012-13.
   b. Physics and Chemistry added UG programs while the Life Sciences Department started the PhD program in the year 2012-13.
   c. UG programs in English and Economics were initiated in the year 2012-13 in the School of Humanities and Social Sciences.
2. Research Centers: Center for Informatics, an interdisciplinary research center was established in the academic year 2012-13 to conduct research in the areas of Bioinformatics and Cheminformatics, Computational Nanoscience, and Design of Organic Dyes and Organic/Polymer Semiconductors. A new Center is also planned under the aegis of the School of Humanities and Social Sciences.

3. Recruitment of faculty: The University was focused on hiring top-notch researchers and teachers both in the year 2012-13. We were successful in recruiting 84 new faculty members with a passion for research and teaching. The faculty strength doubled from the previous year to take care of the academic and research needs of the University.

4. Exceptional students: The student strength rose to 556 at the undergraduate and masters and doctoral level. Generous scholarships were offered to the students based on their merit and needs both at the undergraduate and post graduate levels.

5. Infrastructure development: The built up area of the University in phase one is 1.8 million sq. ft. With over 80% of the campus consisting of landscaped area, SNU is striving to establish an environmental benchmark in the education sector in India. Over the year infrastructure development gained momentum to cater to the needs of students and faculty. The University has been able to ramp up the total operational area of 5 lakh sq. ft. in 2012-13.

6. Global Partnerships: The University signed International Collaborations with leading Universities worldwide. These are:
   a. Carnegie Mellon University for dual degree undergraduate CMU-SNU Scholar Program
   b. Duke University for establishing a broad framework for collaborative academic programs and experiential learning opportunities for the faculty and students of both universities.
   c. University of Essex to conduct joint research to create a regulatory, academic, developmental and support framework necessary to develop and implement innovative international Masters degrees. Also, to use the proposed framework to set up a joint SNU-Essex Master's program in Mathematical Finance.
   d. Annenberg School for Communication (ASC) for designing the curriculum for SNU's School of Communication programs, assist in identification and training of faculty, and establish faculty and student exchange programs. Also, to establish a joint Center for Global Communication Research at SNU.

The Way Ahead
Looking ahead, the next three years will be crucial as we will introduce new departments in the three existing schools and launch new programs. The planning to launch four new schools in the forthcoming years is also under way. The School for Management and Entrepreneurship has already been planned for the Academic Year 2014-15 while the other Schools i.e. School of Education, School of
Communication, and School of Arts, Design and Performance are also envisaged. The University will also be establishing a Career Development Center and Learning and Academic Support Center (LASC) for the students in developing the skills and strategies they need to become confident, independent and active learners.

The coming year will also see the Central Library building fully functional and new hostel blocks ready for the admissions of 2013-14.

As SNU gears towards realizing its goal of a research led multi-disciplinary University, the commitment to create and disseminate knowledge is intrinsic of our journey. We have set our aim high and look forward to our journey and setting new milestones on route.

**Nikhil Sinha**
Founding Vice Chancellor
Shiv Nadar University
The Academic year 2012-13 was a significant year for the Shiv Nadar University as the multidisciplinary and interdisciplinary structure of the University started taking shape. Continuing the path laid down by the Shiv Nadar Foundation, the University endeavored to further realize the vision and mission. As the University entered its second year of establishment, the unique four-year curriculum in all disciplines of undergraduate education was acknowledged and widely applauded. The European Union awarded a grant of 11,77,863 Euros for enhancing the quality, access and governance of undergraduate education in India. The project coordinated by the British Council is in partnership with Ambedkar University, University of Hyderabad, Jadavpur University, Universita di Bologna and King's College London for duration of four years.

SNU strengthened its academic foundations and added new degree programs in the three existing schools i.e. School of Engineering, School of Humanities and Social Sciences and the School of Natural Sciences. The Schools also started graduate programs in the various disciplines to provide a dynamic, exciting, discovery-driven and intellectual environment. The University also geared for the launch of the Fourth School i.e. the School of Management and Entrepreneurship (SME) with the appointment of Prof. Shekhar Chaudhuri as the Director. Prof Chaudhuri joined SNU from IIM Calcutta, where he served as Director for two consecutive terms.

Research and innovation at SNU got a boost when the SNU's 512-node High Performance Computing Cluster “Magus” was inaugurated by Shiv Nadar, Founder, HCL and Shiv Nadar Foundation at the First National Conference on Materials Genome hosted by the University in March 2013. The conference organized by the School of Natural Sciences and center for informatics also saw participation from national and international academicians with representation from three continents.

Faculty with excellent research credentials was recruited by the University. Many members succeeded in garnering external funds from Department of Science and Technology, Department of Biotechnology etc. to pursue their research in the Pure Sciences and Engineering fields. Members had publications in leading journals and represented SNU at prestigious conferences in India and abroad.

International Collaborations during the year 2012-13 gave impetus to incorporating the best pedagogical ideas, techniques and tools into the academic environment of the University. The important tie-ups signed during the year were:

- Carnegie Mellon University to offer dual degree undergraduate CMU-SNU Scholar Program.
- Duke University to establish a broad framework for collaborative academic programs and experiential learning opportunities for the faculty and students of both universities.
- University of Essex to set up a joint SNU-Essex Master's program in Mathematical Finance and for conducting joint research.
- Annenberg School for Communication to design the curriculum for SNU's School of Communication programs and train faculty for the same.

The University recognizes the need for preparing the students for future. Our unique programs, stellar faculty and world-class infrastructure will enable students to pursue successful careers across academia, research, industry and Government sector, but to streamline the process of placements and internships a placement cell is also needed. The framework for a Career Development Centre was laid with the recruitment of the Head of the Centre.

Highlights

The Academic year 2012-13 was a significant year for the Shiv Nadar University as the multidisciplinary and interdisciplinary structure of the University started taking shape. Continuing the path laid down by the Shiv Nadar Foundation, the University endeavored to further realize the vision and mission. As the University entered its second year of establishment, the unique four-year curriculum in all disciplines of undergraduate education was acknowledged and widely applauded. The European Union awarded a grant of 11,77,863 Euros for enhancing the quality, access and governance of undergraduate education in India. The project coordinated by the British Council is in partnership with Ambedkar University, University of Hyderabad, Jadavpur University, Universita di Bologna and King's College London for duration of four years.

SNU strengthened its academic foundations and added new degree programs in the three existing schools i.e. School of Engineering, School of Humanities and Social Sciences and the School of Natural Sciences. The Schools also started graduate programs in the various disciplines to provide a dynamic, exciting, discovery-driven and intellectual environment. The University also geared for the launch of the Fourth School i.e. the School of Management and Entrepreneurship (SME) with the appointment of Prof. Shekhar Chaudhuri as the Director. Prof Chaudhuri joined SNU from IIM Calcutta, where he served as Director for two consecutive terms.

Research and innovation at SNU got a boost when the SNU's 512-node High Performance Computing Cluster “Magus” was inaugurated by Shiv Nadar, Founder, HCL and Shiv Nadar Foundation at the First National Conference on Materials Genome hosted by the University in March 2013. The conference organized by the School of Natural Sciences and center for informatics also saw participation from national and international academicians with representation from three continents.

Faculty with excellent research credentials was recruited by the University. Many members succeeded in garnering external funds from Department of Science and Technology, Department of Biotechnology etc. to pursue their research in the Pure Sciences and Engineering fields. Members had publications in leading journals and represented SNU at prestigious conferences in India and abroad.

International Collaborations during the year 2012-13 gave impetus to incorporating the best pedagogical ideas, techniques and tools into the academic environment of the University. The important tie-ups signed during the year were:

- Carnegie Mellon University to offer dual degree undergraduate CMU-SNU Scholar Program.
- Duke University to establish a broad framework for collaborative academic programs and experiential learning opportunities for the faculty and students of both universities.
- University of Essex to set up a joint SNU-Essex Master's program in Mathematical Finance and for conducting joint research.
- Annenberg School for Communication to design the curriculum for SNU's School of Communication programs and train faculty for the same.

The University recognizes the need for preparing the students for future. Our unique programs, stellar faculty and world-class infrastructure will enable students to pursue successful careers across academia, research, industry and Government sector, but to streamline the process of placements and internships a placement cell is also needed. The framework for a Career Development Centre was laid with the recruitment of the Head of the Centre.
It was an year that saw SNU win accolades and widely talked about by the media in India. Shiv Nadar University was honored with the Best University of the Year award at the Indian Education Congress 2013. Careers360 named SNU as an emerging global university in India while Study Asia magazine ranked SNU as the Most Student Friendly campus in North India.

**School of Engineering (SOE)**

SOE admitted 216 students in five courses offered by the four departments of the School. The School headed by Dr. Madan Gopal received external funding for research projects in the Departments of Civil and Electrical Engineering by Department of Science and Technology, Government of India. The school started Graduate programs for the year 2012-13 and also entered into collaboration with the ST Microelectronics for Computer Science and Electrical Engineering programs.

**Department of Electrical Engineering**

The Department recruited 37 students in Electrical Engineering and 54 students in Electrical and Communication Engineering. Graduate programs in collaboration with ST Microelectronics for M Tech. in Electronics and Communication Engineering with specialization in VLSI Systems and Technology commenced with 14 students registered for the M.Tech. and Ph.D. programs.

Dr. Sitangshu Bhattacharya, Assistant Professor received a grant of Rs. 35 Lakhs under the DST Inspire Faculty Scheme.

The Department also organized a Student certificate training program, a two-day workshop, on MSP 430 (Mixed signal Microcontroller) launch pad in collaboration with Texas Instruments (TI) at the campus on November 3-4, 2012.

**Department of Computer Science and Engineering**

The Department admitted 53 students for the second year in the B. Tech CSE. Seven students enrolled for the Graduate programs offering M Tech. and Ph. D in Computer Science and Engineering. A collaboration with ST Microelectronics for the M. Tech. program in Computer Science and Engineering with specialization in Embedded Systems was also initiated. This provided an opportunity of experiential and industry experience for the students with possibility of placements also.

**Department of Civil Engineering**

The Department got its first external research grant by the Department of Science and Technology (DST) in the second year of establishment. Gopal Das Singhal, Assistant Professor in the department received the Science and Engineering Research Board grant of 15.9 Lakhs from DST for his project titled, Experimental Investigation and optimization of Jack Jetty and Porcupine Systems for River Restoration. The Department enrolled 19 students in the undergraduate course i.e. B Tech in Civil Engineering.

**Department of Mechanical Engineering**

Dr. Dipak Maity, Assistant Professor received the Best Paper Presentation Award at the International Conference on Nanoscience and Nanotechnology (ICONN) 2013 for his paper entitled “Superparamagnetic Iron Oxide Nanoparticles for Theranostics Application”. The Conference was held during March 18-20, 2013 at the SRM University, Chennai.

The department also added graduate programs enrolling students in Ph. D. The undergraduate program admitted 53 students and the entire process of establishing various labs was undertaken by the department.
School of Natural Sciences (SoNS)
Dr. Rupamanjari Ghosh joined the School of Natural Sciences as the Director and charted the course for leading the academic and research focus of the School. The School added undergraduate degree programs in Physics besides Mathematics which was started in the first year. Doctoral programs in Physics, Chemistry and Life Sciences also commenced along with the existing Masters program in Mathematics. The faculty received several external research grants. The School started a vibrant research seminar program, organized and hosted the Annual Conference of the Ramanujam Mathematical Society in October 2012, the first SNU Science Fair in November 2012, and an International Conference on Mapping the Materials Genome at SNU in March 2013. The research infrastructure got a boost by the inauguration of the SNU high performance computing cluster (HPCC), named “Magus”, by Mr. Shiv Nadar on March 9, 2013.

Department of Mathematics
The Department of Mathematics organized and hosted the National Initiative on Mathematics Education Northern Region Conference in association with the Ambedkar University to bring together significant innovations and efforts in improving mathematics education in school and in higher education. The Annual Conference of the Ramanujam Mathematical Society too was hosted during the year 2012-13. With the addition of new faculty members, research focus in the department also got a thrust.

Department of Physics
The Physics department launched its BS program as well as the Ph.D. program in the academic year 2012-13. Research in the department was boosted with the Faculty members getting external funding for their projects.

Dr. Priya Johari, Assistant Professor, was awarded the 'DST Fast Track Scheme for Young Scientists' for her project, Atomistic stimulations of Hybrid films of two dimensional materials using ab-initio methods. She received a sum of 23.5 Lakhs for the project.

Dr. Susanta Sinha Roy, Associate Professor received the best oral paper award at the 8th edition of the Tribology for Sustainable Development, an international conference organized by the Tribology Society of India (TSI), December 7-9, 2012 at Pune. His paper was about the usefulness of various Diamond like Carbon (DLC) coatings for food packaging and biomedical applications.

Department of Chemistry
The Department of Chemistry commenced the Ph.D. program with three students enrolled in the department for research in organic chemistry, nano-materials and green polymers. The course structure and curriculum for the undergraduate program was also designed for launch in the year 2013-14.

Department of Life Sciences
The Department of Life Sciences commenced Ph.D. program in the year 2012-13. The departmental strength also increased and research furthered after external funds were received from Department of Biotechnology.

Dr. Shailja Singh, Assistant Professor, received a grant of 40 Lakhs from the Department of Science and Technology under the Young Scientist Scheme for her research on Screening of small compounds against perforin like protein of plasmodium falciparum.

Dr. Seema Sehrawat, Associate Professor, received the DST International Travel Award. She also won the Talwar Immunology Foundation Award. Dr Seema Sehrawat continues to get consumables from Applied
School of Humanities and Social Sciences (SHSS)
The School introduced new departments and also added degree programs in the undergraduate and postgraduate level for the Academic year 2012-13. A research centre, C-PACT was also envisaged to aid the research pedagogy at the University. Headed by Dr. Shubhashis Gangopadhyay, the School brought the University on international platform with various members attending and chairing international conferences and meetings.

Department of Arts, Design and Performing Arts
The Department of Art, Design and Performing Arts aims to foster paradigmatic shifts in the production and representation of creative expression and knowledge today. Keeping with the University's emphases on interdisciplinary research and situated experiential learning, the department shall endeavor to nurture values of rigorous and thoughtful praxis with (in) the creative fields and their interface(s) with questions of technology, politics, identity, philosophy, history, society and culture. A further area of focus is the development of archives and strategic alliances between scholars and creative practitioners both nationally and transnationally, especially those working within Latin America, Africa, Middle East and Asia.

Department of Economics
The Department of Economics introduced the undergraduate program in Economics with seven students. Several faculty members had publications in leading journals and presented papers at international conferences.

Shubhashis Gangopadhyay, Professor and Director, SHSS, attended The Third Global Think Tank Summit organized by the China Centre for International Economic Exchanges (CCIEE). He participated in the Panel Discussion that dealt with Changes in the Global Economic Patterns and Future Perspectives.

Sankar De, Professor, Department of Economics was invited to present his paper at a seminar at the World Bank Finance Research Group in Washington DC on June 11. His paper titled Are Banks Responsive to Exogenous Shocks to Credit Demand in Rural Economies? dealt with the commercial banking system in India and the way it responds positively to credit demand shocks following a drought.

Department of English
The Department of English faculty interested in the exploration of language development, gender studies, translation, and performance actively pursued their teaching and research interests. Dr Tulika Chandra, Associate Professor, undertook a project 'Documentation of Folktales through Digitization' to preserve the folktales that await digitization and revival. The folktales, folksongs are video-recorded, as narrated by the native speakers and are negligibly edited.

Dr Pramesh Ratnakar, Head, Department of English undertook a project, “English Skills Enhancement” for community engagement in Chithera Village.

Department of History
The Department of History is designed as a combined research and teaching effort. While the core expertise of the faculty is focused on histories of science, technology environment and medicine (STEM), the study of political, social, economic and cultural history will be drawn into several thematic dialogues and historical concerns. The broad geographical thrust, in terms of the Department's research and teaching interests, will comprise South and South East Asia, West Asia and the India Ocean.
Upcoming Schools

School of Communication
The School of Communication is designed to be an interdisciplinary research and professional school. It will be engaged in teaching and research on communication and media systems, processes, messages and effects, technologies and techniques of media production and dissemination. The programs will place a special emphasis on India's emerging communication environment and its integration into the international communication environment. The goal of the University is to establish the School as the premiere institution for the study of communication in India and one of the best places for preparing a new generation of media professionals for the Indian and global media industries.

School of Education
The School of Education is envisaged to further the broader mission of the Shiv Nadar Foundation to help transform education in India and the University's own emphasis on leadership, responsibility and service to society. In line with SNU's wider goal to be a research-led University, the department also intends to conduct high quality research, creating and disseminating new knowledge in the discipline that will significantly impact and shape policy and practice in education. Research programs in the School will be supported by research centers focusing on special problems or areas of research. The partnership with the Duke University to establish a broad framework for collaborative academic programs and experiential learning opportunities for the faculty and students of both universities was also a step in that direction.

School of Management and Entrepreneurship
Under Professor and Director Shekhar Chaudhuri, the School formulated the vision to be a globally recognized institution for developing outstanding leaders and entrepreneurs and for advancing the theory and practice of management. The mission of the school is to develop innovative, entrepreneurial and principled leaders who would have the capabilities to lead and create wealth for their organizations in the context of a rapidly changing, uncertain and hyper-competitive environment and also have an appreciation and understanding of real life problems of the vast majority of people in India and other parts of the world. The School plans to start its general MBA program in the Academic year 2014-15.

Research Centers
The Center for Informatics under the aegis of the School of Natural Sciences held its First National Conference on Mapping the Materials Genome. The Vice Chancellor Dr. Nikhil Sinha and Dr. Rupamanjari Ghosh, Director of the School inaugurated the event that saw representation from three continents and participation of 57 speakers from 30 different institutions. It also witnessed the inauguration of SNU’s 512-node High Performance Computing Cluster “Magus” by Mr. Shiv Nadar.

Faculty members in the Institute for Innovations & Inventions with Mathematics and IT (IIIMIT) were actively involved in collaborations and published in reputed journals.

The Centre for Public Affairs and Critical Theory (C-PACT) under the aegis of the School of Humanities and Social Sciences was envisaged to further the research mission of the University. Headed by Distinguished Professor of Sociology, the Centre will work to convert research into viable solutions for the most pressing problems of the country and world at large. The findings of this research will be shared with practitioners and policy makers, private entities and activists. The Centre will self-consciously depart from most other policy oriented institutes in two important respects. First, it will analyze and recommend social policies in the light of cutting edge research in the social sciences. Second, its overall thrust and orientation will be guided by considerations of enlarging and realizing citizenship
Faculty Achievements
The year 2012-13 saw the recruitment for faculty gain momentum in all the schools and departments. The faculty strength by the end of the academic year stood at 87. Many of them had publications in leading journals and engaged in research projects with external or internal start-up grants by the Shiv Nadar Foundation.

Besides evolving innovative programs of study and courses, teaching, guiding and conducting research, members of the faculty engaged in writing and editing books, contributing chapters to volumes, publishing papers and articles, organizing and participating in seminars, conferences and workshops, delivering lectures outside SNU and managing research projects. During the academic year 2012 – 2013 their combined output amounted to the following:

<table>
<thead>
<tr>
<th>Faculty Publications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>7</td>
</tr>
<tr>
<td>Chapter in Books</td>
<td>5</td>
</tr>
<tr>
<td>Papers/Articles in Journals</td>
<td>78</td>
</tr>
<tr>
<td>Participation in Seminars/conferences/Workshop</td>
<td>42</td>
</tr>
<tr>
<td>Lectures delivered (Outside SNU)</td>
<td>48</td>
</tr>
<tr>
<td>Conference Papers</td>
<td>83</td>
</tr>
<tr>
<td>Research/Project Works</td>
<td>5</td>
</tr>
</tbody>
</table>

Table 1: Faculty Publications and Projects

Fig 1: Faculty Publications
Admission Process
The University maintains a high bar in admissions by looking at student's performance in nation-wide board examinations, motivation to pursue the particular field of study, aptitude test and personal interview. The University also gives strong emphasis to candidate's leadership and achievements in extra-curricular areas such as sports, arts and talent competitions.

256 students registered in the second year for undergraduate programs in Five engineering, Mathematics, English and Economics disciplines. The students underwent a four level evaluation process as laid down by the admission team. New categories of scholarship were added to ensure that no meritorious student was deprived of world class education

Students Activities
Extra-curricular cultural, social and sporting activities for the students are essential for their overall development. It inculcates team spirit, self-discipline and contributes to the physical and emotional well-being. The University provided resources for student clubs, sports and athletics.

Clubs
Student clubs were active throughout the year and new clubs were added to the existing clubs. With able support from the University and guidance from the Dean of Students Welfare office, students celebrated the second edition of Breeze. The three day long inter-college cultural and technical festival held at the SNU campus saw participation from a host of colleges from Delhi University and other institutions from Delhi/NCR region. The three day extravaganza included a power-packed live performance by Delhi based famous band Half Step Down and a captivating performance by India's Ace Flautist Pt Ronu Majumdar.

Sports
SNU sports department organized domestic events with objective of Mass participation at University and identifying new talents for University teams. In the year 2012-13 Domestic events were organized in discipline of Badminton, Cricket, Football, Tennis and Volleyball.

Participation in inter college/ university events was also successful with the sports contingent winning at events like the OP Jindal Global University sports meet, Haryana, securing Silver on the Table at Jaypee Sports Fest, Noida.

The facilities for various sports like cricket, football, basketball, badminton, table tennis, chess, carom etc. were added in the second year.

Career Development Centre
The Career Development Centre intends to support the students in shaping and managing their careers effectively. The aim is to inculcate employability skills amongst them which are the key ingredients for a successful and stable career. Employability skills not only improve the chances of placements for students/ graduates but also help in developing professional attributes for continuing and growing in the job. These are the skills, attitudes and actions that enable professionals to get along with their fellow workers, reporting managers/ supervisors and to take informed decisions at crucial times.
Faculty Development Center (FDC)
The Faculty Development Center (FDC) was announced on June 6, 2013, with Dr. Rupamanjari Ghosh as the first Head. The main role of the FDC at SNU is to

- Recognize faculty as professionals and support them in their teaching and research by providing a comprehensive program of services and resources.
- Provide an orientation to pedagogy and the science of teaching and learning, including the full range of classroom management and organization techniques.
- Provide a basic knowledge of student advising to allow faculty to be effective student mentors.
- Provide technology training to faculty to enable them to use technology productively – as part of classroom practices as well as for research.
- Assist faculty in the supervision and preparation of graduate students so that the University can effectively train the next generation of teachers and researchers.
THE UNIVERSITY
Shiv Nadar University has been established by the Shiv Nadar Foundation as a multi-disciplinary, research led institute of global stature and to provide world-class education to students from all walks of life. Shiv Nadar Foundation (SNF) is inspired by Shiv Nadar's deep passion and commitment towards the creation of a more equitable, meritocracy based society. Shiv Nadar University aims to disseminate and advance knowledge and skill by providing instructional, research and extension of facilities for learning and promotion of:

- Innovations in education leading to restructuring of courses, new methods of teaching, training and learning including online learning, blended learning, continuing education and such other nodes and integrated and wholesome development of personality.
- Studies in various disciplines.
- Inter disciplinary studies\national intimation, secularism, social equity and engineering of international understanding and ethics.

**Vision**

Knowledge is the path to freedom. Political freedom; freedom from repression and coercion; freedom from want and hunger; freedom to seize opportunities and realize dreams; freedom of expression and personal development; indeed the full range of freedoms that characterize the human ideal, all are made possible, strengthened and deepened by the acquisition and application of knowledge. The Shiv Nadar University will contribute to the process of creating and disseminating knowledge, cementing the path through which individuals and communities both within and outside India can realize and exercise these universal freedoms.

The University is dedicated to the discovery, development, organization, preservation, dissemination, and application of knowledge in a wide range of fields with the purpose of expanding the scale and scope of human understanding and contributing to the betterment of the world. Committed to excellence in teaching, research and service, the University will serve the higher education needs of India and the world beyond.

**Mission and Objectives**

The Shiv Nadar University is an international, multidisciplinary research university with the goal to be among the leading institutions of higher learning in the world. Anchored in research, innovation and technology and supported by outstanding faculty, exceptional students and international academic partnerships, the University is envisioned to become an enduring global center for learning and higher education. The University's mission is to develop students with the breadth of vision, knowledge, skills and attitudes needed to shoulder the globally responsible and ethical leadership burdens of the 21st Century and beyond. The University will have a strong emphasis on leadership, responsibility and service to society, including a focus on the skills required to manage and lead public institutions, commercial enterprises and organizations in civil society. Its interdisciplinary focus will prepare students not only to specialize in specific disciplinary areas but also to develop a broad-based learning foundation that incorporates a range of academic disciplines including the sciences and social sciences, humanities, communication, business, engineering and the creative arts. Supporting, fostering and encouraging a range of research, scholarship and creative expression and the integration of teaching and research are vital aspects of the University's mission.
The University's goal is to become internationally recognized for the quality of its research and creative endeavors and their applicability to improving quality of life, generating new insights and expanding the boundaries of human knowledge creativity.

Act
The University has been established as a Private University by the Shiv Nadar University Uttar Pradesh Act 2011 (U.P. Act No. 12 of 2011).
# Officers of the University

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pro-Chancellor &amp; Chairman, Executive Council</td>
<td>Dr. S N Balakrishnan</td>
</tr>
<tr>
<td>Chancellor</td>
<td>TSR Subramaniam</td>
</tr>
<tr>
<td>Vice Chancellor</td>
<td>Dr. Nikhil Sinha</td>
</tr>
<tr>
<td>Director, School of Engineering</td>
<td>Dr. Madan Gopal</td>
</tr>
<tr>
<td>Director, School of Humanity &amp; Social Science</td>
<td>Dr. Shubhashis Gangopadhyay</td>
</tr>
<tr>
<td>Director, School of Management &amp; Entrepreneurship</td>
<td>Dr. Rupamanjari Ghosh</td>
</tr>
<tr>
<td>Registrar</td>
<td>J E Samuel Rathnakumar</td>
</tr>
<tr>
<td>Dean of Faculty</td>
<td>Dr. Nikhil Sinha Vice Chancellor</td>
</tr>
<tr>
<td>Dean of Student Welfare</td>
<td>Prof. Sanjeev Agarwal</td>
</tr>
<tr>
<td>Controller of Examinations</td>
<td>Dr. Madan Gopal</td>
</tr>
<tr>
<td>Proctor</td>
<td>Prof. Sanjeev Agarwal</td>
</tr>
<tr>
<td>Finance Officer</td>
<td>Manish Gaur</td>
</tr>
<tr>
<td>Other Officers</td>
<td></td>
</tr>
<tr>
<td>Administrations</td>
<td>Bhaskar Kishore Mishra</td>
</tr>
<tr>
<td>Admissions</td>
<td>M Sundararajan</td>
</tr>
<tr>
<td>PRO/Spokesperson</td>
<td>Bhaswati Chakravorty</td>
</tr>
</tbody>
</table>

Table 2: Officers of the University
Governance

The Court
The Shiv Nadar University Court is an important authority of the Shiv Nadar University and functions to review the broad policies and programs of the University. The Court is an advisory body to the Chancellor and suggests measures for the working, improvement and development of the University.

In the Academic year 2012-13, the Court met twice i.e. on September 5, 2012 and February 26, 2013. The year 2012-13 was significant as the membership of the Shiv Nadar University expanded with national and international experts in different fields including academics, corporations, government agencies etc. were welcomed into the body.

Membership of the Court
1. T.S.R. Subramanian, Chancellor, Chairperson
2. Dr. Nikhil Sinha, Founding Vice Chancellor
3. Mr. Pawan Danwar, CFO, HCL, Noida (Till 2012)
4. Mr. Saurav Adhikari, President, Corporate Strategy, HCL, Noida (Till 2012)
5. Dr. R Srinivasan, Redington India (From 2012 onwards)
6. Mr. E.A. Kshirsagar, Chairman, Audit Committee of JM Financial Ltd., Mumbai (From 2012)
7. Dr. Richard Lariviere, President, President of the Field Museum, Chicago, Illinois, USA. (From 2012)
8. Mr. B.S. Baswan, Senior Consultant (Education), Planning Commission, Government of India (From 2012)
9. Mr. Sushil Tripathi, Former Secretary to Government of India, Ministry of Petroleum and Natural Gas (From 2012)
10. Dr. Pradeep Khosla, Chancellor, University of California, San Diego, USA (From 2012)
11. Dr. Srikant Datar, Arthur Lowes Dickinson Professor of Accounting, Harvard Business School (From 2012)
12. Dr. S. Sankar Sastry, Dean, College of Engineering, University of California, Berkeley (From 2012)
13. Mr. J E Samuel Rathnakumar, Non-member Secretary

Permanent Invitees (From 2012)
Dr. Rupamanjari Ghosh, Director, School of Natural Sciences, Shiv Nadar University
Dr. Shubhashis Gangopadhyay Director, School of Humanities & Social Sciences, Shiv Nadar University
Dr. Madan Gopal, Director, School of Engineering, Shiv Nadar University
Dr. Sanjeev Agrawal, Dean - Undergraduate Studies & Students welfare.

Executive Council
The Executive Council welcomed its Chairperson and Pro Chancellor Dr. Balakrishnan to the University's formal institutional governing body and fiduciary body. The role of the Executive Council is to exercise policy direction and control to ensure the establishment, monitoring and
achievement of the University's mission and goals. This includes oversight of the University's finances and budgetary processes; the creation and monitoring of academic programs and academic standards, goals and objectives; the establishment of academic and research units; oversight of campus policies and investment strategies; conducting institutional performance evaluations; compliance with the University's statutory and regulatory responsibilities; liaison with external agencies and political bodies; and hiring and evaluating the ongoing performance of the Vice Chancellor, the Registrar and other senior University administrators.

**Membership of the Executive Council**
1. Dr. SN Balakrishnan, Pro-Chancellor & Chairman, Executive Council (June 2013 onwards)
2. Dr. Nikhil Sinha, Founding Vice Chancellor
3. Mr. Pawan Danwar, CFO, HCL and Shiv Nadar Foundation
4. Saurav Adhikari, President, Corporate Strategy, HCL and Advisor, Shiv Nadar Foundation
5. D K Srivastava Head & Chief, HR, HCL & SNF (June 2013 onwards),
6. Mr. J.E. Samuel - Registrar-Non Member Secretary

**Academic Council**
The formal involvement and engagement of the faculty in the academic administration of the University is a cornerstone of its governance culture. The Academic Council, consisting of permanent University faculty elected by their academic units, is the apex body representing the faculty's formal role in University governance. The Academic Council will have oversight over all matters of educational policy and is responsible for evaluating and approving all academic degree programs including requirements for admission, honors or degrees granted at the University. During the year under review the Council met Four times to discuss and approve important Academic matters of the University. Meetings were held on July 13, 2013, October 3, 2012, November 19, 2012 and January 10, 2013.

**Membership of the Academic Council**
1. Dr. Nikhil Sinha, Vice Chancellor, SNU-Chairperson
2. Dr. Madan Gopal, Director, School of Engineering (SoE)
3. Dr. Rupamanjari Ghosh, Director, School of Natural Sciences (SNS)
4. Dr. Shubhashis Gangopadhyay, Director, School of Humanities and Social Sciences (SHSS)
5. Dr. Sanjeev Agrawal, Professor and Dean, UG studies
6. Dr. Amber Habib, Professor, Department of Mathematics, SNS
7. Dr. Vikram Vyas, Professor, Department of Physics, SNS
8. Dr. N. Sukumar, Professor and Head, Department of Chemistry, SNS
9. Dr. Divya Saksena, Professor, Department of English, SHSS
10. Dr. Sankar Dhar, Professor, Department of Physics, SNS
11. Dr. Sanjay Mishra, Professor and Head, Department of Mechanical Engineering, SoE (Till September 2012)
12. Dr. Deepak Sehgal, Professor and Head, Department of Life Sciences, SNS
13. Dr. Pramesh Ratnakar, Professor and Head, Department of English, SHSS
14. Prof. Shahid Jamal, Head, Media Production Programs, School of Communication (November 2012 onwards)
15. Prof Sumantra Sengupta, School of Art, Design and Performance (November 2012 onwards)
The Finance Committee is the principal financial body of the University. The main task of this Committee is to take care of the Financial matters of the University. It is a statutory body with the Vice Chancellor as the Chairman and Finance Officer as the Member Secretary.

The Finance Committee discussed and submitted the Budget for the financial year 2012-13 along with its recommendations to the Executive Committee for its consideration and approval.
FACULTY
### Faculty

<table>
<thead>
<tr>
<th>Total (till 30 June 2013)</th>
<th>87</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>13</td>
</tr>
<tr>
<td>Associate Processor</td>
<td>17</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>53</td>
</tr>
<tr>
<td>Visiting Professor</td>
<td>3</td>
</tr>
</tbody>
</table>

Table 9: Faculty break up

**Figure 2: Faculty in SNU**

**Figure 3: Faculty in SNU**
Achievements

The Faculty at Shiv Nadar University all through the year actively worked towards realizing the mission of making it a world class research led university. The esteemed faculty members put in their best efforts to impart knowledge to the founding batch of the University. In addition to strengthen the academic structure of the University and evolving curriculum and courses for the University, the faculty also undertook publishing/ editing of books, publishing papers in journals, involved in research work, supervising Ph. D students, participating in conferences, attending workshops etc

Faculty Achievements at a glance:

<table>
<thead>
<tr>
<th>Books</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Engineering (SoE)</strong></td>
<td></td>
</tr>
<tr>
<td>Dipak Maity, Assistant Professor, Department of Mechanical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Sushil Kumar Singh, Assistant Professor,</td>
<td>1</td>
</tr>
<tr>
<td>Department of Civil Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>School of Humanities and Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Pramesh Ratnakar, Professor and Head, Department of English</td>
<td>1</td>
</tr>
<tr>
<td>Shubhashis Gangopadhyay, Director, SHSS</td>
<td>2</td>
</tr>
<tr>
<td><strong>School of Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Vijay Kumar, Research Professor, Center of Informatics</td>
<td>2</td>
</tr>
<tr>
<td><strong>Chapter in Books</strong></td>
<td></td>
</tr>
<tr>
<td><strong>School of Humanities and Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Ashokankur Datta, Assistant Professor, Department of Economics</td>
<td>1</td>
</tr>
<tr>
<td>Shubhashis Gangopadhyay, Director, SHSS</td>
<td>3</td>
</tr>
<tr>
<td>Tulika Chandra, Associate Professor, Department of English</td>
<td>1</td>
</tr>
<tr>
<td><strong>Papers in Journals</strong></td>
<td></td>
</tr>
<tr>
<td><strong>School of Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>Dipak Maity, Assistant Professor, Department of Mechanical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>G Naveen Babu, Assistant Professor,</td>
<td>1</td>
</tr>
<tr>
<td>Department of Electrical Engineering</td>
<td></td>
</tr>
<tr>
<td>G R Biswal, Assistant Professor, Department of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>M Gopal, Director SoE</td>
<td>1</td>
</tr>
<tr>
<td>Muneendra Ojha, Assistant Professor, Department of Computer Science &amp; Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Mahesh P Mungule, Assistant Professor, Department of Civil Engineering</td>
<td>1</td>
</tr>
<tr>
<td>R G Sangeetha, Assistant Professor, Department of Electrical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Name</td>
<td>Position and Department</td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td>--------------------------------------------------------------</td>
</tr>
<tr>
<td>Sitangshu Bhattacharya</td>
<td>Assistant Professor, Department of Electrical Engineering</td>
</tr>
<tr>
<td>Sushil Kumar Singh</td>
<td>Assistant Professor, Department of Civil Engineering</td>
</tr>
<tr>
<td>Shubhashis Gangopadhyay, Director, SHSS</td>
<td></td>
</tr>
<tr>
<td><strong>School of Humanities and Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Gatha Sharma</td>
<td>Assistant Professor, Department of English</td>
</tr>
<tr>
<td>Shubhashis Gangopadhyay, Director, SHSS</td>
<td></td>
</tr>
<tr>
<td><strong>School of Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Alok Kanjilal</td>
<td>Associate Professor, Department of Physics</td>
</tr>
<tr>
<td>Ashutosh Singh</td>
<td>Assistant Professor, Department of Life Sciences</td>
</tr>
<tr>
<td>Bimlesh Lochab</td>
<td>Assistant Professor, Department of Chemistry</td>
</tr>
<tr>
<td>Charu Sharma</td>
<td>Assistant Professor, Department of Mathematics</td>
</tr>
<tr>
<td>Deepak Sehgal</td>
<td>Professor and Head, Department of Life Sciences</td>
</tr>
<tr>
<td>Dimitrios G. Kaskaoutis</td>
<td>Assistant Professor, Department of Physics</td>
</tr>
<tr>
<td>Gouriprasanna Roy</td>
<td>Assistant Professor, Department of Chemistry</td>
</tr>
<tr>
<td>N Sukumar</td>
<td>Professor and Head Department of Chemistry</td>
</tr>
<tr>
<td>Niteesh Sahni</td>
<td>Assistant Professor, Department of Mathematics</td>
</tr>
<tr>
<td>Ram Sagar Misra</td>
<td>Assistant Professor, Department of Chemistry</td>
</tr>
<tr>
<td>Richa Priyadarshini</td>
<td>Assistant Professor, Department of Life Sciences</td>
</tr>
<tr>
<td>Rupamanjari Ghosh</td>
<td>Director, SNS</td>
</tr>
<tr>
<td>Sri Krishna Jayadev Magani</td>
<td>Assistant Professor, Department of Life Sciences</td>
</tr>
<tr>
<td>Sudeeptrao Bhattacharya</td>
<td>Associate Professor, Department of Mathematics</td>
</tr>
<tr>
<td>Susanto Sinha Roy</td>
<td>Associate Professor, Department of Physics</td>
</tr>
<tr>
<td>V. K. Jayaraman</td>
<td>Professor, Center for Informatics</td>
</tr>
<tr>
<td>Vikram Vyas</td>
<td>Professor, Department of Physics</td>
</tr>
<tr>
<td>Vijay Kumar</td>
<td>Research Professor, Center for Informatics</td>
</tr>
<tr>
<td><strong>Institute of Innovations &amp; Inventions with Mathematics &amp; Information Technology (IIIMIT)</strong></td>
<td></td>
</tr>
<tr>
<td>L M Saha</td>
<td>Fellow</td>
</tr>
<tr>
<td><strong>Participation in Seminars/ Conferences/ Workshops</strong></td>
<td></td>
</tr>
<tr>
<td><strong>School of Engineering</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Participation in Seminars/Conferences/Workshops

#### School of Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bikas Parida, Assistant Professor</td>
<td>Department of Civil Engineering</td>
<td>2</td>
</tr>
<tr>
<td>G Naveen Babu, Assistant Professor</td>
<td>Department of Electrical Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Gyan Ranjan Biswal, Assistant Professor</td>
<td>Department of Electrical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Gopal Das Singhal, Assistant Professor</td>
<td>Department of Civil Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Rajeev Kumar Singh, Assistant Professor</td>
<td>Department of Computer Science &amp; Engineering</td>
<td>4</td>
</tr>
<tr>
<td>Richa Sharma, Associate Faculty</td>
<td>Department of Computer Science &amp; Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Sandeep Joshi, Assistant Professor</td>
<td>Department of Electrical Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

#### School of Humanities and Social Sciences

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tulika Chandra, Associate Professor</td>
<td>Department of English</td>
<td>1</td>
</tr>
</tbody>
</table>

#### School of Natural Sciences

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashutosh Singh, Assistant Professor</td>
<td>Department of Life Sciences</td>
<td>5</td>
</tr>
<tr>
<td>Bimlesh Lochab, Assistant Professor</td>
<td>Department of Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Charu Sharma, Assistant Professor</td>
<td>Department of Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>N Sukumar, Professor and Head</td>
<td>Department of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Seema Sehrawat, Associate Professor</td>
<td>Department of Life Sciences</td>
<td>2</td>
</tr>
<tr>
<td>Sneh Lata, Assistant Professor</td>
<td>Department of Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>Sonali Bhandari, Associate Professor</td>
<td>Department of Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>Sri Krishna Jayadev Magani, Assistant Professor</td>
<td>Department of Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Sunanda Sukumar, Associate Professor</td>
<td>Department of Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>V. K. Jayaraman, Professor</td>
<td>Center for Informatics</td>
<td>1</td>
</tr>
<tr>
<td>Vaibhav Shrivastava, Assistant Professor</td>
<td>Department of Physics</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Papers/Posters Presented in Conferences

#### School of Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashutosh Dwivedi, Assistant Professor</td>
<td>Department of Electrical Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Name and Title</td>
<td>Department</td>
<td>Count</td>
</tr>
<tr>
<td>----------------</td>
<td>------------</td>
<td>-------</td>
</tr>
<tr>
<td>Bikas Parida, Assistant Professor, Department of Civil Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Dipak Maity, Assistant Professor, Department of Mechanical Engineering</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>G Naveen Babu, Assistant Professor, Department of Electrical Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Gopal Das Singhal, Assistant Professor, Department of Civil Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Jagabandhu Dixit, Assistant Professor, Department of Civil Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Muneendra Ojha, Assistant Professor, Department of Computer Science &amp; Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Nishant Mishra, Assistant Professor, Department of Mechanical Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Oinam Bakimchandra, Assistant Professor, Department of Civil Engineering</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>PC Jain, Professor, Department of Electrical Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>RG Sangeetha, Assistant Professor, Department of Electrical Engineering</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Richa Sharma, Associate Faculty, Department of Computer Science &amp; Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Rahul Deshpande, Assistant Professor, Department of Civil Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Sandeep Joshi, Assistant Professor, Department of Electrical Engineering</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**School of Humanities and Social Sciences**

<table>
<thead>
<tr>
<th>Name and Title</th>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divya Saksena, Professor, Department of English</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Saptarshi P. Ghosh, Assistant Professor, Department of Economics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Sankar De, Professor, Department of Economics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Suchismita Tarafdar, Assistant Professor, Department of Economics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Tulika Chandra, Associate Professor, Department of English</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**School of Natural Sciences**

<table>
<thead>
<tr>
<th>Name and Title</th>
<th>Department</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aloeke Kanjilal, Associate Professor, Department of Physics</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ashutosh Singh, Assistant Professor, Department of Life Sciences</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bimlesh Lochab, Assistant Professor, Department of Chemistry</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Department</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Dimitrios G. Kaskaoutis, Assistant Professor, Department of Physics</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>N Sukumar, Professor and Head Department of Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Priya Johari, Assistant Professor, Department of Physics</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Rupamanjari Ghosh, Director, SNS</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Samarendra P Singh, Assistant Professor, Department of Physics</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Sankar Dhar, Professor and Head, Department of Physics</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Seema Sehrawat, Associate Prof, Department of Life Science</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Shailja Singh, Assistant Professor, Department of Life Sciences</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Sri Krishna Jayadev Magani, Assistant Professor, Department of Life Sciences</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Sudeepto Bhattacharya, Associate Professor, Department of Mathematics</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Susanto Sinha Roy, Associate Professor, Department of Physics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>V. K. Jayaraman, Research Professor, Center for Informatics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Vijay Kumar, Research Professor, Center of Informatics</td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

**Lectures Delivered Outside SNU**

**School of Engineering**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gyan Ranjan Biswal, Assistant Professor, Department of Electrical Engineering</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Madan Gopal, Director, SoE</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Mahesh Mungule, Assistant Professor, Department of Civil Engineering</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Oinam Bakimchandra, Assistant Professor, Department of Civil Engineering</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>PC Jain, Professor, Department of Electrical Engineering</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Santanu Mitra, Associate Professor, Department of Mechanical Engineering</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**School of Natural Sciences**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber Habib, Professor, Department of Mathematics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Ashutosh Singh, Assistant Professor, Department of Life Sciences</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Bimlesh Lochab, Assistant Professor, Department of Chemistry</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Krishnan Rajkumar, Assistant Professor, Department of Mathematics</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>N Sukumar, Professor and Head Department of Chemistry</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ram Sagar Misra, Assistant Professor, Department of Chemistry</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Rupamanjari Ghosh, Director SNS</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Samarendra P Singh, Assistant Professor, Department of Physics</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>
### Projects with External Funding

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Source</th>
<th>Total Requested (Euros)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNU (in partnership with Ambedkar University, University of Hyderabad, Jadavpur University, Universita di Bologna and King’s College London, coordinated by British Council)</td>
<td>European Union</td>
<td>11,77,863</td>
</tr>
</tbody>
</table>

#### School of Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Funding Scheme</th>
<th>Total Requested (Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gopal Das Singhal, Assistant Professor</td>
<td>Department of Civil Engineering</td>
<td>DST Science and Engineering Research Board (SERB) scheme</td>
<td>15.9</td>
</tr>
<tr>
<td>Sitangshu Bhattacharya</td>
<td>Assistant Professor, Department of Electrical Engineering</td>
<td>DST Inspire Faculty</td>
<td>35</td>
</tr>
</tbody>
</table>

#### School of Natural Sciences

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Funding Scheme</th>
<th>Total Requested (Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priya Johri, Assistant Professor</td>
<td>Department of Physics</td>
<td>DST Fast Track Scheme</td>
<td>19</td>
</tr>
<tr>
<td>Shailja Singh, Assistant Professor</td>
<td>Department of Life Sciences</td>
<td>DBT Innovative Young Biotechnologist Award (Transferred from ICGEB to SNU)</td>
<td>12</td>
</tr>
<tr>
<td>Shailja Singh, Assistant Professor</td>
<td>Department of Life Sciences</td>
<td>DST Young Scientist Scheme</td>
<td>40</td>
</tr>
</tbody>
</table>

Table 5: Projects with External funding
EVENTS AT THE UNIVERSITY
Events at the University

School of Engineering
1. Naveen Babu G and Sandeep Joshi, Student certificate training program on MSP 430 (Mixed signal Microcontroller) launch pad in collaboration with Texas Instruments (TI) at Shiv Nadar University on November 3-4, 2012.

School of Natural Sciences
1. Ramanujan Mathematical Society 27th Annual Conference was hosted by the Shiv Nadar University during October 20-23, 2012. Conference highlights:
   • Presidential address by Prof M S Raghunathan
   • Twelve plenary lectures
   • Five symposia with 6 speakers each in Analysis, Combinatorics, Commutative Algebra, Partial Differential Equations and Topology
   • Ten paper reading sessions of contributed papers,
   • General Body Meeting of the Ramanujan Mathematical Society, on October 22, 2012
4. Release of the book Arithmetic and Algebra written for school students by Dr Shailesh Shirali, on October 22.
2. The First Science Fair was organized at SNU campus on November 3, 2012. Director SNS Rupamanjari Ghosh delivered the Keynote Address at the Fair, titled Physics through Optics.
3. Mathematics Colloquium by the Department of Mathematics at the University campus on January 24, 2013. Director SNS, Rupamanjari Ghosh delivered a talk on, Non-linear dynamics of coupled lasers (oscillators) at the event.
4. The School of Natural Sciences (SNS) Colloquium Series on 28 January 2013. Director SNS Rupamanjari Ghosh delivered the first talk entitled, "Bulk quantum mechanics at room temperature: Dark resonances, slow and backward light using 4He*".

It was the first conference on the campus of Shiv Nadar University, and also the first conference in India in the emerging research direction of the Materials Genome. Discerning and exploiting patterns in chemical and biological data lies at the heart of any systematic program for drug or materials design. Rapid advances in computational power during the last couple of decades have enabled theoretical characterization of many bio- and nano-materials using first principles
computations, but the computational effort required is still formidable enough to preclude routine use of such methods in a high-throughput setting. Many problems in chemistry, biology and materials science are so complex and inter-connected that novel approaches based on the sciences of informatics, complex systems and network theory are required for their solution. Predictive informatics methods employing statistical techniques to process and analyze the huge volumes of data generated by robotic high-throughput assays in the wake of the Human Genome Project have led to rapid advances in bioinformatics. In the search for materials with specific properties, a similar combination of first principles computational studies with experimental work and heuristic statistical methods has the potential to leverage the power of each, thereby bringing high-throughput capability to the quest for predicting the characteristics of materials at the nanoscale. This approach has been termed the Materials Genome Initiative. This conference brought some of the leading researchers in the country and a few from abroad in these areas and served to create awareness about this important emerging development in materials research.

Highlights of the Conference:

- 57 participants (invited speakers and poster presenters) from 30 different institutions.
- 3 continents (North America, Europe and Asia) represented.
- Inauguration of SNU's 512-node High Performance Computing Cluster “Magus” by Mr. Shiv Nadar
- Cash Prizes and Awards to Best Poster (Amit A. Vernekar, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore) and Runner-Up (Zeenia Jagga and Shubham Kavishvar, Bioinformatics laboratory, Structural and Computational Biology Group, ICGEB, New Delhi).

School of Education
Shiv Nadar University and Duke TIP Conference on Understanding and Serving Academically Talented Students in India on the 15 and 16 February 2013 at the Stellar Gymkhana, Greater Noida. Facilitated by Duke TIP curriculum specialists and gifted education specialist Dr Richard D Courtright and gifted education researchers and teachers Lyn Hawks and Dr Matthew Makel, the participants explored the characteristics of gifted learners. Dr. Jyoti Sharma, Assistant Professor, Cluster Innovation Center, University of Delhi, and Adjunct Faculty, National Institute of Advanced Studies, Bangalore and Mr. Sridhar Rajagopalan, Founder and Managing Director, Educational Initiatives were the additional speakers. Administrators and educators from many leading schools like Shiv Nadar School, Noida, The British School, New Delhi, The Galaxy School, The Heritage School, Rohini, DPS Sushant Lok, Gurgaon The Shriram School, Noida etc. participated in the conference.
Students

The year 2012-13 saw the joining of 294 bright students in the School of Engineering, the School of Natural Sciences and the School of Humanities and Social Sciences in the undergraduate and post graduate courses.

Undergraduate Admissions
In the year 2012-13, the admissions office received 945 applications out of which 496 were selected for interview and 257 students took admission.

Undergraduate Admissions: The Break Up

Fig 4: Undergraduate Admissions 2012-13

Undergraduate Admissions: The Break Up

Fig 4: Undergraduate Admissions 2012-13 break up
Masters and Doctoral Admissions

The Academic Year 2012-13 enrolled 37 students in Masters and PhD programs. The University follows an independent process for the selection of students. The PhD applicants are evaluated on the basis of a written test followed by an interview conducted by the Departments whereas the Masters students are selected on the basis of the written test. The University also considers GATE Scores for M Tech and CSIR-UGC NET-JRF, DBT-JRF etc. for Ph.D. admissions. The advertisement and details of the application process is made available on the University website for the same (www.SNU.edu.in).

Shiv Nadar University grants full scholarship and lucrative stipend to all its students pursuing Masters PhD programs across all Schools. PhD students receive fellowship of Rs. 5.45 lakhs/annum, the highest in the country while the Masters students are paid a stipend of Rs. 1.65 lakhs/annum.

The scholarship covers:

1. Full Tuition fee (including any Special Fee)
2. Full Hostel fee.

All the admitted students are required to pay only the following administrative fee & deposit:

1. Admission Fees (One Time) - Rs. 15,000
2. Refundable Security Deposit (One time) - Rs. 25,000
Masters and Doctoral Admissions: Break up

Admissions 2012-13

<table>
<thead>
<tr>
<th>Course</th>
<th>MS Economics</th>
<th>MA English</th>
<th>MS Maths</th>
<th>M Tech CSE</th>
<th>M Tech ECE</th>
<th>PhD CSE</th>
<th>PhD ECE</th>
<th>PhD EE</th>
<th>PhD ME</th>
<th>PhD Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 1</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>11</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Fig 8 Graduate Admissions break up

School wise distribution of Masters and Doctoral Students

Fig 9: Graduate Admissions School wise break up
Admissions: By year across all programs and Schools

Fig 9 Masters Admissions year wise break up

Fig 10 Graduate Admissions year wise break up
**Student Activities**

Student activities are organized to promote a vibrant, stimulating, engaging and respectful campus culture. Shiv Nadar University as a fully residential university believes that extra-curricular activities are equally important for preparing the young adults for life. In consistent with this objective, the campus saw host of activities around the year. The year also saw the formation of Students Body empowering the students and increasing their role in students welfare. Elections were held to elect the representatives of the SNU Body of students. The Student clubs and societies formed in the founding year were also expanded and new clubs were added so that these activities could be more inclusive. Essay writing competitions, Quiz Competition, Skits, Debates, Dance, Singing, Technical events etc. were organized for all the students. Important festivals like Diwali, Lohri were also celebrated for the students to make them feel that SNU is a home away from home. Guest and dignitaries from around the globe also interacted with the University students. They also participated in many off-campus events organized by business houses and other institutes throughout the year. The major events are:

- India Today's Leadership Development Conclave on September 7, 2012.
- Workshop and interactive session with Mr. Michal Malinowski, storyteller, writer and folklorist and the founder of Story-telling Museum, Warsaw, Poland on September 18, 2012 organized by Literary Society.
- Sitar recital by Padmabhushan Pandit Devbrata (Debu) Chaudhuri -organized by SPIC MACAY SNU Chapter on October 8, 2012.
- Launch of first ENewsletter on October 10, 2012 organized by Literary Society.
- Screening of a play 'Bakri', performance by 'Yavanika Theatre Society, University of Delhi on October 18, 2012 organized by the SNU Dramatics Club.
- Pratham's ASER Educational Survey-30 student volunteers from SNU and surveyed 30 villages around the University during November 2012.
- Santoor recital by Padmashri Pt. Bhajan Sopori on December 3, 2012 organized by SPIC MACAY SNU chapter.
- An introductory talk for the Inner Engineering Program by Maa Ekisha from Isha Yoga Centre on January 9, 2013.
- A play Voh Bol Uthi (She Spoke Up) performed by members of Janam, a group of self-trained actors focusing on the issue of Gender Sensitization on January 19, 2013 organized by Literary Society.
- Theatre appreciation event at National School of Drama (NSD) Kamani Auditorium on January 20, 2013 organized by dramatics club of SNU.
- Udaan, the aeronautical club of SNU takes off and organizes its workshop on coding in collaboration with Yantriki on January 23-24, 2013.
Asia on January 30, 2013 organized by FICCI-USIBC.

- A vocal performance by Pt. Raja Miya organized on February 5, 2013 organized by SPIC MACAY SNU Chapter
- Round table meeting with the Under Secretary of State for Public Diplomacy and Public Affairs Tara Sonenshine, at the American Center on February 7, 2013.
- Traditional Odissi Gotipua Dance by Guru Bijay Kumar Sahoo and Group, organized by SPIC MACAY SNU Chapter on February 25, 2013
- Non Stop Feel Good show by Maya Krishna Rao, renowned theatre artist at SNU on March 1, 2013.
- Twenty One (21) SNU students were selected by FICCI & US Embassy for mentoring phase in Business Plan Competition - The Next Great Entrepreneur in March 2013.
- Annual Techno-Cultural Fest 'BREEZE-2013' organized that saw scintillating performances by Pt Ronu Majumdar, Purulia Chhau dance - Pt Chinnibas Mahto & group, Half Step Down Rock band, Delhi Drummers & DJ Anish Sood from Sunburn during March 15-17, 2013.
- Drishtikon, weekly talk series takes off with a session by Mr George Abraham, Founding Chairman of the World Blind Cricket Council (WBCC) and the Association for Cricket for the Blind in India (ACBI) on April 5, 2013.
- Introductory Session on Global Entrepreneurs Programme by AIESEC, IIT Delhi: April 16, 2013
- Seminar on 'Innovation for Inclusion' organized by FICCI in association with the Ministry of Finance during 46th Annual Meeting of the Board of Governors of the Asian: May 2, 2013.
- A panel discussion on labour unions-management conflicts by Dr Saroj Giri, Delhi University, and representatives from the workers' union of Maruti's Manesar Plant: May 2, 2013
- From Classrooms to Boardrooms, a session on summer internships by Rajan Johri, Head HR on May 9, 2013.

**Sports**

A healthy mind resides in a healthy body, goes the saying. The Sports department at SNU believes that when you exercise your body, you exercise your mind as well. A wide variety of indoor and outdoor sport activities available to the SNU students so that they can have an all-round development. The Sports department has world class facilities and well trained coaches and staff:

Dhiraj Parasher, Head of the Department has over eight years of experience in Coaching and Teaching Sports Science. He was associated with Sports Authority of India also. He holds a Master's in Physical Education and Diploma in Coaching from National Institute of Sports, Patiala.

Vikrant Choudhary, Junior Sports cum Volleyball Coach, is an accredited coach and official of Volleyball from Australian Sports Commission. He has pursued Master of Sports Management from Edith Cowan University, Western Australia.

Rahuldeep Singh, Basketball Coach, has been a Basketball coach in Sports Authority of India and a National Level Player. He holds a Master in Physical Education and Diploma in Coaching.
Anuj Pratap Singh, Football Coach, is an extraordinary player and played at the national level. He has a Master in Physical Education and Diploma in Coaching from National Institute of Sports, Patiala.

Gaurav Sharma, Cricket Coach, is a state level player and represented Delhi in several BCCI tournaments. He has also played for British Airways Club in London and Coached Junior Club. Gaurav has an undergraduate degree from St Stephens College, Delhi University.

Shilesh Krishna Tiwari, Fitness Trainer and has trained various national level athletes. He is a Certified Strength and Conditioning Specialist.

Jigyasa Sharma, Fitness Trainer, is a well experienced fitness trainer for female athletes and general fitness. She is body pump RPm, Lesmills India, Reebok.

Current:
- Two Synthetic Basketball Courts with Flood Lights
- Two Synthetic Lawn Tennis Courts with Flood lights
- Four Cricket Nets
- Two Volleyball Courts
- One Football ground
- One Cricket Field
- Two Fitness Centers
- Two Badminton Courts
- Three Table Tennis Tables
- Yoga Room
- Rooms for Chess and Carom

Upcoming:
- Indoor Sports Complex
- Fitness center
- Yoga & Aerobics
- Jogging Track
- Sports Areas for Basketball, Volleyball, Badminton etc.
- Billiards and Snooker
- Cricket Stadium
- Football Ground
- Swimming Pool
- Hockey

Throughout the year 2012-13, many intra University tournaments were organized to train the sportspersons of SNU as well as to identify and hone new talents in the University. Domestic events helped in finding talents for the formation of SNU sports Squads. Sports department initiated club
sports format for intra university tournament. Six clubs were formed managed by students and owned by Faculty members. The clubs constituted of players from different disciplines who clashed in different events like Badminton, Cricket, Football, Tennis and Volleyball. The major events that were organized during the year under review are:

- **Intra University Cricket Tournament**: October 1-6, 2012.
- **SNU Open Ranking Badminton Championship (Men's)**: October 16-18, 2012
- **SNU Football League**: The league was spread over a week with 18 matches played between different teams. Falcons won the Title SNUFL 2012.
- **Interschool Volleyball Tournament**: August 22-23 2012. School of Engineering team won the tournament.
- **SNU Cricket league**: February-April 2013 in which 66 players in different clubs participated. Seven Strikers won the title.
- **SNU Open Ranking Tennis Championship**: November 19-21, 2012. 40 students participated in the event.

**Outstation Events**: SNU participated in many sports events of regional and national levels. The team made the University proud by clinching several titles. Some of the major events are:

- **LNMIT Jaipur**: SNU participated in the Football and Chess events. While the University won the Football title defeating many teams from Universities and colleges of the country, they had to contend with second spot in the Chess event.
- **Jaypee College, Noida Sports Fest**: SNU secured Silver in the Table tennis event at the Jaypee Sports Fest.
- **OP Jindal Global University**: SNU bagged the overall championship at OP Jindal Global University Sports fest. The Contingent won a Gold in Chess and Silver in Football, Cricket, Table Tennis, Badminton and Lawn Tennis.

- **Friendly Practice Matches**: The University invited many teams for friendly matches. Some of them are:
  - Basketball practice Match with Jamia University: September 17, 2012. SNU won 60-52
  - Football practice Match with BIMTEC: September 28, 2012. SNU won 5-0.
  - Matches with Shardha University in the discipline of Football, Basketball and Volleyball: January 26, 2013. Football match was won by Shardha while SNU won the Basketball match. Volleyball match was tied.
  - Cricket Practice match with DDA Vasant Kunj. SNU won: February 1, 2013.

**Volunteering Activities**:
SNU Sports department promotes Volunteering activities. Student Volunteers get the opportunity to be part of national and international sports events. Students from the University provided volunteer services at the Asian Wrestling Championship at K.D Jadav stadium from April 18 to 22, 2013. Student volunteers handled many operations and their services were highly appreciated.
Infrastructure and Facilities

**Central Library**
The Shiv Nadar University Central Library is the soul of the institution and has an extensive collection of books, scientific and technical journals and electronic reference materials for the academic and research needs of students and faculty members. The Central Library worked towards establishing an excellent, modern knowledge resource center to disseminate latest information for teaching, learning and research, to maintain effective national and international resource sharing network relations and adopt effective online digital innovative policy, encourage lifelong learning and implement the best management practices.

The Central Library and Information Centre consists a Reference Section, Circulation Section, Audio-visual Section, Periodical Section, Book Bank and a Digital Library. The University library has automated all its library activities to provide effective and wide range of academic resources such as books, journals, online databases, DVDs and other useful materials. In addition to the central library the departmental library system is also being developed for all the functional schools in the University.

**Central Library at a Glance:**
The Central Library has a rich collection of General Text books for undergraduate, post graduate and Doctoral courses. The Library has 12836 number of book volumes, 5940 number of book titles and a rich collection of Reference Books. English literature, Children collection, Sports and Fiction books are also available for reading and entertainment. University library subscribes 56 journals and 42 magazines in Hindi and English both and 21 newspapers both in English and Hindi languages.

Digital Library Services: Ten individual multimedia terminals have been installed with modern internet facilities.

**OPAC (Online Public Access Catalogue):** The online bibliographic database of university central library can be accessed through internet for search and retrieval purpose.

The University library subscribes to the following online databases:

1. ACM Digital Library
2. ACS (American Chemical Society)
3. AIP & APS
4. Annual Review
5. IEL Xplore Digital Library
6. JSTOR
7. Math SciNet
8. Oxford University Press
9. Royal Society of Chemistry
10. SIAM Journals.
11. Springer Link.
The University library subscribes to the following e-journals:

1. Advanced Functional Materials
3. Nature Materials
4. Nature Physics
5. Proceedings of the National Academy of Science (PNAS).
6. Nature

**Rare Book Collection**

Dr. Richard W. Lariviere, President Field Museum, Chicago and member of the University Court has donated his personal rare book collection to the Central Library. The collection consists of rare literary works like Dharma Kosha, Vedic texts, multiple rare editions of Dharma texts, Math, Science, and History etc. Sanskrit, Prakrit, Hindi, English, French, and German languages books are also included in the above collection. There are numerous documents of historical paintings on the culture of India, France and other western countries.

**Events**

The Shiv Nadar University (SNU) Library organized a one day meet on March 11, 2013 at SNU campus for exploring methods of resource sharing, which can be implemented in the libraries of universities across Delhi and NCR. Many eminent Library professionals from reputed institutes like Jawaharlal Nehru University (JNU), Indira Gandhi National Open University (IGNOU), Indian Institute of Technology (IIT), Delhi, Indian Institute of Public Administration (IIPA) , Delhi University, etc. participated in the event.
INTERNATIONAL COLLABORATION
International Collaboration

International Collaboration
International partnerships and programs are an endeavor of the Shiv Nadar University to provide students with a global educational perspective and to incorporate the best approaches and practices in the teaching methodology to supplement the Indian curriculum and pedagogy. The University signed important collaborations with best institutes around the world in the year 2012-13.

Carnegie Mellon University
The University launched the Carnegie Mellon Shiv Nadar Program in Electrical & Computer Engineering and Mechanical Engineering in partnership with Carnegie Mellon University (CMU). These four-year undergraduate engineering degree programs will award students dual degrees – a Bachelor of Technology from Shiv Nadar University and a Bachelor of Science in Engineering from Carnegie Mellon University. Launched as part of the program offerings of SNU’s School of Engineering and CMU’s College of Engineering, the Shiv Nadar Carnegie Mellon Program would commence in August 2013. While pursuing this dual degree program the students will spend the first and third year at the SNU campus in Greater Noida in India's National Capital Region and the second and fourth year at CMU's Pittsburgh Pennsylvania campus, with opportunities to undertake summer internships in both the US and India. The program's integrated curriculum will provide students one of the best educations in engineering, while the periods in India and the US will expose students to a unique bi-national experience that will prepare them to succeed in an increasingly globalized working environment.

Annenberg School for Communication (ASC)
The University partnered with the Annenberg School for Communication at the University of Pennsylvania (ASC) to design the curriculum for SNU's School of Communication programs. The partnership also established both faculty and student exchange programs whereby students and faculty from both institutions will have the option to spend up to two semesters at The Annenberg School for communication campus in Pennsylvania or at the SNU campus at Greater Noida. The partnership also paved the way for the establishment of joint Center for Global Communication Research to be located at SNU. Faculty from both schools and across disciplines at both Universities would be affiliated with the Center whose objective is to undertake research on critical issues in global communication. The Center will hold conferences and seminars and publish research reports as part of its mission to disseminate the findings of the research conducted at the Center.

Duke University
The Shiv Nadar University partnered with the Duke University to establish a broad framework for collaborative academic programs and experiential learning opportunities for the faculty and students of both universities. Duke would also assist SNU in institutional development activities which include assistance in curricula development; faculty recruitment and development; identifying and implementing best practices in university administration and other forms of institutional development. A core team comprising key people from both universities will support the initiatives and assist in the development and implementation. SNU and Duke University under
the aegis of Duke's globally renowned Talent Identification Program (TIP) will further collaborate on the development and implementation of educational activities for academically talented students in India. In addition to the development of educational activities for talented students in India, the alliance would further provide assistance to the SNU School of Education to help develop curriculum for the program.

University of Essex

Shiv Nadar University and the University of Essex set up a joint research effort to produce a framework for creating innovative global Masters programs in higher education.

The SNU University of Essex research effort will be supported by a grant from the British Council under the Knowledge Enterprise Partnerships scheme.

The key focus areas of investigation and evaluation were identified as:

- Use of innovative technologies to provide effective distance learning, with distance co-supervision and remote synchronous and asynchronous teaching activities
- Integration of academic with co-curricula activities such as work placements and other work based experiences.
- Use of the proposed framework and technologies to set up a joint masters program in Mathematical Finance involving the Department of Mathematics and the Institute for Innovations and Inventions in Mathematics and IT (IIIMIT) from the Shiv Nadar University and the Schools of Mathematical Sciences and Computer Science and Electronic Engineering, Department of Economics, Centre for Computational Finance and Economic Agents (CCFEA) and the Essex Business School from the University of Essex.
ANNEXURES
Faculty Publications

Books Published/ Edited by the Faculty

School of Engineering

School of Humanities and Social Sciences

School of Natural Sciences

Chapters in Books

School of Humanities and Social Sciences
Journals/ Papers Published in Journals

School of Engineering


School of Humanities and Social Sciences


18. Gangopadhyay, Shubhashis, Robert Lensink and Bhubesh Yadav, Cash or In-Kind Transfers? Evidence from a Randomised Control Trial in Delhi, India, 2012.


School of Natural Sciences


42. Niteesh Sahni and Dinesh Singh, Lax-Halmos Type Theorems in Hp spaces, Houston Journal of Math., 2013
51. Sankar Dhar with A Srivastava et al., Coherently coupled ZnO and VO2 interface studied by photoluminescence and electrical transport across a phase transition, Appl. Phys. Lett. 100, 241907 2012.


64. **Sri Krishna Jayadev Magani** with Ashok K Dubey; Mechanistic studies of the anti-proliferative activity of Phyllanthus emblica extract on HeLa cells. Journal of carcinogenesis vol. 11, suppl.1, Nov 2012. (Impact factor 2.3)


72. **V. K. Jayaraman** with Ninad Oak, Identification of Ligand Binding Pockets on Nuclear Receptors by Machine Learning Methods, Protein & Peptide Letters (In Press). Bentham Science I.F. 1.95

73. **Vikram Vyas** Heavy Quark Potential from Gauge/Gravity Duality: A Large D Analysis, Phy. Rev. D 87 045026 (2013)

74. **Vijay Kumar** with Sachin P. Nanavati, Vijayaraghavan Sundararajan, Shailaja Mahamuni, S. V. Ghaisas, Nonstoichiometric Mn-doped ZnO magic nanoclusters and their composite structures from ab initio calculations, Phys. Rev. B86, 205320 (2012) (7 pages + supporting information) APS (Impact factor = 3.7)


78. **Vijay Kumar** with Amol B. Rahane, Punam A. Murkute, Mrinalini D. Deshpande, Density Functional Calculations of the Structural and Electronic Properties of (Y2O3)n(0,±1) Clusters with n = 1-10. J. Phys. Chem. A, appeared as Just Accepted article ACS (Impact factor = 2.946) June 2013.

**Participation in Seminars/Conferences/Workshops:**

**School of Engineering**


6. **Gopal Das Singhal**, IWRS Executive committee meeting at CWC, New Delhi in January & April 2013


11. **Rajeev Kumar Singh**, Two days Technical workshop at IIT Delhi, July 31 to August 2013.

12. Rajeev Kumar Singh, Three days conference, ISEC-2013 at India Habitat Centre, Delhi, February 21-23 2013.


**School of Humanities and Social Sciences**


**School of Natural Sciences**


18. **Ashutosh Singh**, Carcinogenesis International Conference at Ram Manohar Lohia Hospital, New Delhi, November 21-29, 2012.


24. **Deepak Sehgal**, Chaired the session in National Conference on Mapping the Materials Genome organized by School of Life Sciences, Shiv Nadar University, Greater Noida, UP, March 8-10, 2013.

25. **N. Sukumar** Chief Guest at the National Conference on Emergence of Inter-disciplinary Sciences, at LM College of Science and Technology, Jodhpur, August 25, 2012.


27. **N. Sukumar**, The Institute of Mathematical Sciences, Celebrating fifty years in the pursuit of science, January 2-4, 2013.


30. **Seema Sehrawat**, Life Science Conclave: Promoting Business Innovation to Drive Growth in Life Sciences at New Delhi, December 11-12, 2012.

31. **Sneh Lata**, Ergodic Theory and Dynamical Systems at Jawaharlal Nehru University, New Delhi, October 2, 2012.


33. **Sonali Bhandari**, Awareness raising and Information campaign, 27-28th September, 2012

34. **Sonali Bhandari**, India-Cambridge summit, India in the Global Age, 10th September, 2012

36. **Sonali Bhandari**, TERI-Rockefeller International Workshop on Resilient Cities- Experience from ACCRN in Asia & Beyond, Delhi Sustainable Summit, 29th Jan, 2013


40. **Sri Krishna Jayadev Magani**, Confocal and super resolution microscopy by Leica microscopes Germany at the National Centre for Biological Sciences, Bangalore, Karnataka, October 3-5, 2012.

41. **Sri Krishna Jayadev Magani**, Next generation sequencing and genomics held at LAB India laboratories Gurgaon.


43. **Vaibhav Shrivastava**, Lecture Series at Indian National Science Academy, New Delhi on topics like Higgs Bosons, Frontiers in aerospace & defense applications, Large Hadron Colliders components.

**Paper/ Posters Presented in Conferences/ Working Papers**

**School of Engineering**


5. **D. Maity**, Magnetic Nanoparticles for Medical Diagnosis and Therapy at the First International Conference on Mapping the "Materials Genome" (MMG 2013), at Shiv Nadar University, Greater Noida, India, March 8-10, 2013.


14. Oinam, B.C., Understanding GIS and its application in Health Care sector at the Training program on GIS Applications in Health care for the health professionals at the International Institute of Health and Management Research, New Delhi, October 8-12, 2012.


17. R.G. Sangeetha, D. Chadha, and Vinod Chandra, 4x4 Optical Data Vortex Switch Fabric: BER Analysis at The National Conference on Communications, IIT Delhi, India, pp.1-5, 2013.


21. **Singhal, G.D.** with Sharma, N, Physical Modeling of Piano Key Weir for Sawara Kuddu Hydro Electric Project in India at the International Workshop on Piano Key Weir for In-Stream Storage Creation and Dam Safety (PKWISD-2012), New Delhi, May 30th-June 1, 2012.

### School of Humanities and Social Sciences

22. **Saptarshi P. Ghosh** with Jaideep Roy, University of Surrey, UK, Professional Advice from Randomly Transparent Committees, Revise and Resubmit, Games and Economic Behavior at the Economics Internal Paper Presentation Series.  
23. **Saptarshi P. Ghosh** with Jaideep Roy, University of Surrey, UK and Peter Postl, University of Bath, UK, When Good News is Bad: Media Persuasion and Voter Welfare.


29. **Tulika Chandra**, Learner-centered Instruction and the Role of Instructors for ELT Classrooms” The 10th Asia TEFL International Conference, Gurgaon, October 5, 2012.


### School of Natural Sciences


34. **Bimlesh Lochab** with D. S. Varma, Polymers: Safety in Sustainable development, Conference organized by Institute of Engineers, India (IEI), at Hotel Le Meridien, Delhi, India, August 2012.


38. **Dimitrios G. Kaskaoutis** with Anu Rani Sharma, K.V.S. Badarinath, Shailesh Kumar Kharol, H. Kambezidis, Solar dimming over the tropical urban region of Hyderabad, India at the 24th Sankar De, Credit Rationing in Informal Markets: The Case of Small Firms in India, at the Financial Intermediation Research Society conference, Dubrovnik, Croatia on June 30, 2013.


43. **Tulika Chandra**, Learner-centered Instruction and the Role of Instructors for ELT Classrooms” The 10th Asia TEFL International Conference, Gurgaon, October 5, 2012.


**School of Natural Sciences**


46. **Ashutosh Singh**, Identification of genes of cross tolerance and the coexpression pattern in Arabidopsis thaliana at the National Conference on the emergence of Interdisciplinary Sciences, LM College of Science and Technology, Jodhpur, Rajasthan, August 24-25, 2012.


48. **Bimlesh Lochab** with D. S. Varma, Polymers: Safety in Sustainable development, Conference organized by Institute of Engineers, India (IEI), at Hotel Le Meridian, Delhi, India, August 2012.


52. **Dimitrios G. Kaskaoutis** with Anu Rani Sharma, K.V.S. Badarinath, Shailesh Kumar Kharol, H. Kambezidis, Solar dimming over the tropical urban region of Hyderabad, India at the


40. Dimitrios G. Kaskaoutis with P.G. Kosmopoulos, The role of meteorology on atmospheric dynamics, air mass transport and aerosol characteristics. IITM-WMO seminar on Metropolitan Air Quality Forecasting and Services (SAFAR), Pune, India, April 30 2013.


46. Dimitrios G. Kaskaoutis with Deepi Sharma, Atinderpal Singh, Darshan Singh, Case study of two intense dust storms on aerosol characteristics over Patiala, Punjab, India at the 10th AOGS Annual Meeting, Brisbane, Australia, June 24-28, 2013.

47. Ghosh Rupamanjari with S. Schwartz, T. Lauprêtre, F. Goldfarb, and F. Bretenaker, The solid-state ring laser gyro: current and future trends, at the Conference on Advances in Slow and Fast Light VI: OE118 – Part of SPIE Photonics West (OPTO), San Francisco, CA, USA, February 2-7, 2013 School of Natural Sciences


52. **N Sukumar** with Ganesh Prabhu, Sudeepto Bhattacharya, Michael Krein, Network measures in polymer space at the First National Conference on Mapping the Materials Genome, at the Shiv Nadar University, Greater Noida, March 8-10, 2013.


54. **Priya Johari** with Yue Qi and Vivek B. Shenoy Li and Si Diffusion in Si Anodes in Li-Ion Batteries: An Ab-Initio Molecular-Dynamics, Study at Materials by Design meeting at Brown University on March 29, 2013.


60. **Sankar Dhar**, Invited lecture at the First National Conference on mapping the Materials Genome at Shiv Nadar University, Greater Noida, India, March 8-10, 2013.


62. **Seema Sehrawat** and **Shailja Singh**, Targeting the Signaling machinery modulating Endothelial Permeability: A Novel approach for treatment of Cerebral Malaria at the Drug Discovery and World Congress, Boston, USA, June 3-6, 2013.

63. **Shailja Singh**, Role of calcium signaling in entry and exit of malaria parasite at the National...
Symposium on Fight against Malaria- Prospects and Perspectives, Maharshi Dayanand University, India, March 9, 2013.


66. Susanta Sinha Roy with J. A. McLaughlin, Application of various types of diamond like carbon (DLC) coatings on polymer for improved barrier performance at the 8th International Conference on Industrial Tribology, Pune, India December 7-9, 2012.


68. Sudeepto Bhattacharya with S Shanu, M Kapur, Q Qureshi, Y Jhala, A graph theoretic approach for modelling tiger corridor network in Western Ghats-Eastern Ghats landscape complex, India at the 3rd International Conference on Computational Sustainability (CompSust’12), University of Copenhagen, July 2012.


73. Vijay Kumar with Pradip B. Shelke, Graphitic Phase Formation in a Layer and in Few Layer Ultrathin Films of ZnO using Ab Initio Calculations, at the First National Conference on mapping the Materials Genome at the Shiv Nadar University, Greater Noida, March 8-10, 2013.

74. Vijay Kumar with J. Karthikeyan and P. Murugan, Magnetism in MoS2+x Parallelogram Platelets and Nanoribbons at the First National Conference on mapping the Materials Genome at the Shiv Nadar University, Greater Noida, March 8-10, 2013.

75. Vijay Kumar with Sachin P. Nanavati, S. Mahamuni, S. V. Ghaisas, Atomic Structures of Magic (ZnSe)n (n = 13, 33 and 34) Clusters from First Principles Calculations at the First National Conference on mapping the Materials Genome at the Shiv Nadar University, Greater Noida, March 8-10, 2013.

78. **Vijay Kumar**, Magnetism in Doped Clusters of Gold and Compound Semiconductors, in Electronic Structure Approaches to Atoms, Molecules, Clusters and Solids, ACRHEM, University of Hyderabad, Hyderabad, 7-11 January 2013


80. **Vijay Kumar**, Ab initio studies of the atomic and electronic structure of clusters, Advances in Computational Physics, Central University of Tamil Nadu, Thiruvarur, February 14-16, 2013.


**Lectures delivered outside SNU**

**School of Engineering**

1. **Gyan Ranjan Biswal**, Indian Institute of Information Technology (IIIT), Gwalior, India.

2. **Gyan Ranjan Biswal**, Shaastath 2013, International Conference at Rungta College of Engineering & Technology (RCET), Bhilai, India.

3. **M Gopal**, Chief Guest, Staff Development Program sponsored by AICTE, 14th July 2012, Galgotia College of Engineering and Technology, Greater Noida.


10. **Maheesh M Mungule**, Advances in Civil Engineering and Scope of Structural Engineering at Shri Guru Gobind Singh Institute of Engineering and Technology, Nanded, Maharashtra, July 2012.

11. **Oinam Bakimchandra**, Spatial Data Modelling and GIS Applications, TERI University, New


**School of Natural Sciences**


15. **Amber Habib**, From Zero to Infinity at Hansraj College, University of Delhi, Delhi, March 1, 2013.


22. **Ashutosh Singh**, Key resource person and Invited Speaker at National Bureau of Fish Genetic Resources, ICAR Institute Lucknow.

23. **Ashutosh Singh**, Advance Sequence Analysis and Microarray data analysis in Subject-Matter training for ICAR Scientists under the NAIP funded project 'Establishment of National Agricultural Bioinformatics Grid' (NABG) on “Analytical tools in Functional and Comparative genomics in Fisheries Domain, November 27 to December 7, 2012,


29. **Ram Sagar Misra**, Exploring and Exploiting the Carbohybrids Towards Biological Application, Royal Society of Chemistry (London), North India Section at Department of Chemistry, University of Delhi on August 23, 2013.

30. **Ram Sagar Misra** Exploiting the T6P pathways in plant for biomass production at Department of Biotechnology, Himachal Pradesh University, Shimla, September 3, 2012.

31. **Ram Sagar Misra**, Probing sugar signalling pathways in living system at Friday Seminar talk at Central Drug Research Institute, Lucknow on September 14, 2013.


33. **Seema Sehrawat**, ICGEB, New Delhi, March 2013.

34. **Seema Sehrawat**, Seminar at School of Medicine, Yale Medical School, USA, June 2013.

35. **Seema Sehrawat**, Seminar at Harvard School of Public Health, Boston, USA, June 2013.

36. **Shailja Singh**, Seminar at Department of Biotechnology, Hamdard University, New Delhi, India, 2013.

37. **Shailja Singh**, Seminar at School of Medicine, Yale Medical School, USA, June 2013.

38. **Shailja Singh**, Seminar at Harvard School of Public health, USA, June 2013.

39. **Sri Krishna Jayadev Magani** at National conference on the Emergence of Interdisciplinary Sciences, Lachoo Memorial College of Science and Technology, Jodhpur.

40. **Subhabrata Sen**, at the Chemistry Departments of Jadavpur University and Kalyani University, West in May 2013.

41. **Samarendra P. Singh**, Organic electronics: Potential and Challenges at the Department of Physics, University of Hyderabad, April 5, 2013.

42. **Sudeepto Bhattacharya**, International Centre for Genetic Engineering and Bioinformatics, New Delhi, September 27 2012.


44. **V.K. Jayaraman** at Pune University at Center for Modeling and Simulation and at the dept. of Computer Science, Pune University, Pune, June 2013.

45. **Vijay Kumar**, Computational Design of Novel Nanoparticles by Doping and Semiconducting Graphene at the Department of Physics, Hong Kong University of Science and Technology, Hong Kong, January 14 2013.

46. **Vijay Kumar**, Semiconducting graphene and graphene-like layers of compound semiconductors Department of Physics, VCU, Richmond, USA, April 29, 2013. Vikram Vyas, Higgs Mechanism: Gauss's Law in Various Guises at St. Stephen's College, University of Delhi, Delhi, October 12 2012.

47. **Vikram Vyas**, Tying Quarks with Strings in Five Dimensions at the Physics Department, Delhi University of Delhi, Delhi, 7 November 2012 and School of Physical Sciences, Jawaharlal Nehru University, New Delhi, April 3, 2013.


**Awards, Honors and Grants:**

**Ghosh Rupamanjari**, awarded one fully-paid visit of 15 days to Laboratoire Aimé Cotton (LAC) -- CNRS, Orsay, France, as her recent project with Dr. Fabien Bretenaker got graded 'Excellent' by the Scientific Council of the Indo–French Centre for the Promotion of Advanced Research (IFCPAR or CEFIPRA), April 2013.
### Shiv Nadar University Audited Balance Sheet at a Glance as on March 31, 2013

<table>
<thead>
<tr>
<th>Schedule</th>
<th>As at March 31, 2013 (INR)</th>
<th>As at March 31, 2012 (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sources of funds</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corpus fund</td>
<td>5,011,000</td>
<td>11,000</td>
</tr>
<tr>
<td>Unsecured loans</td>
<td>541,896,292</td>
<td>97,747,515</td>
</tr>
<tr>
<td>Secured Loan</td>
<td>5,829,183</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>552,736,475</td>
<td>97,758,515</td>
</tr>
<tr>
<td><strong>Application of funds</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net written down value</td>
<td>121,487,271</td>
<td>1,439,275</td>
</tr>
<tr>
<td>Add: Capital work in progress</td>
<td>42,786,822</td>
<td>164,273,093</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>164,273,093</td>
<td>1,439,275</td>
</tr>
<tr>
<td>Current assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and bank balances</td>
<td>11,065,078</td>
<td>-</td>
</tr>
<tr>
<td>Loans and advances</td>
<td>15,062,698</td>
<td>9,956,414</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>26,127,776</td>
<td>9,956,414</td>
</tr>
<tr>
<td>Less: Current liabilities and provisions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current liabilities</td>
<td>62,980,117</td>
<td>33,087,244</td>
</tr>
<tr>
<td>Provisions</td>
<td>4,496,085</td>
<td>975,974</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>67,465,202</td>
<td>33,063,218</td>
</tr>
<tr>
<td><strong>Net current assets/ (liabilities)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(41,337,426)</td>
<td>(23,106,804)</td>
</tr>
<tr>
<td><strong>Excess of expenditure over income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>429,800,808</td>
<td>119,426,044</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>552,736,475</td>
<td>97,758,515</td>
</tr>
</tbody>
</table>

**Significant Accounting Policies and Notes to Accounts**

The schedules referred to above form an integral part of the balance sheet.

This is the balance sheet referred to in our report of even date.

For Price Waterhouse
Firm Registration Number - 012754N
Chartered Accountants

Dr. Nikhil Sinha
Vice Chancellor

Abhishek Rara
Partner
Membership No.077779

Manish Gaur
Finance Officer

Place: Gurgaon

For and on behalf of Shiv Nadar University

J Ernest Samuel Ratnakumar
Registrar

Place: Noida
## Income and Expenditure Account for the year ended March 31, 2013

<table>
<thead>
<tr>
<th>Schedule</th>
<th>For the year ended March 31, 2013 (INR)</th>
<th>For the period from April 6, 2011 to March 31, 2012 (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fees and other collection from students</td>
<td>35,471,875</td>
<td>15,912,500</td>
</tr>
<tr>
<td>Other income</td>
<td>2,514,934</td>
<td>618,314</td>
</tr>
<tr>
<td>Total Income</td>
<td>37,986,809</td>
<td>16,530,814</td>
</tr>
<tr>
<td>Expenditure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personnel cost</td>
<td>149,093,588</td>
<td>43,387,373</td>
</tr>
<tr>
<td>Other operating and general expenses</td>
<td>167,026,297</td>
<td>91,210,586</td>
</tr>
<tr>
<td>Finance Cost</td>
<td>486,218</td>
<td>115,529</td>
</tr>
<tr>
<td>Depreciation/amortisation</td>
<td>31,755,470</td>
<td>1,243,370</td>
</tr>
<tr>
<td>Total Expenditure</td>
<td>348,361,573</td>
<td>135,956,858</td>
</tr>
<tr>
<td>Excess of expenditure over income</td>
<td>(310,374,764)</td>
<td>(119,426,044)</td>
</tr>
<tr>
<td>Add: Balance brought forward from the previous period</td>
<td>(119,426,044)</td>
<td>-</td>
</tr>
<tr>
<td>Balance carried forward to Balance Sheet</td>
<td>(429,800,808)</td>
<td>(119,426,044)</td>
</tr>
</tbody>
</table>

### Significant Accounting Policies and Notes to Accounts

The schedules referred to above form an integral part of the Income and Expenditure Account.

This is the Income and Expenditure Account referred to in our report of even date.

For Price Waterhouse
Firm Registration Number - 012754N
Chartered Accountants

Dr. Nikhil Sinha
Vice Chancellor

Abhishek Rara
Partner
Membership No. 077779

J Ernest Samuel Ratnakumar
Registrar

Manish Gaur
Finance Officer

Place: Gurgaon
Place: Noida