SVKM’s NMIMS

SVKM’s Narsee Monjee Institute of Management Studies (NMIMS) is one of the top management schools of India, which was set up by Shri Vile Parle Kelavani Mandal in 1981 in Mumbai. Based on the performance and 5 star rating by NAAC in 1999, Ministry of HRD on advise of UGC, conferred on NMIMS deemed-to-be University status under section 3 of UGC act. Since becoming University, NMIMS expanded its horizons to take management education to a different level. In its conscious efforts to expand to newer disciplines, NMIMS established several schools in Management, Technology, Science, Pharmacy, Architecture and Commerce. The University has strong international linkages with reputed universities, leading to international assignment including teaching, research and consultancy, faculty and student exchange programs. Today, nearly three decades after its inception, NMIMS continues its tradition of training young minds and finding solutions to address tomorrow’s challenges.
School of Science

School of Science was started in 2007 with a view to provide graduate and post graduate students an opportunity to be a part of the unique learning process and methodology of the university, with emphasis on academic excellence combined with industry oriented training.

To address the greater need for flexibility in scientific thought on an interdisciplinary plane, highly innovative and multifaceted courses are offered at the School of Science.

The goal of the School of Science is to be a Centre of Excellence in the domain of Pure and Applied Sciences by providing quality education and research.
Networking and Linkages

School of Science has established research collaborations with the following Scientists/Institutions:

- Dr. Prabha Nair, Tissue Engineering and Regeneration Technologies Division, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala, India. Website: sctimst.ac.in/
- Dr. Dhirendra Bahadur, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology (IIT), Bombay, Maharashtra, India. Website: met.iitb.ac.in/
- Dr. Pritha Ray, Advanced Centre for Training Research and Education in Cancer, Tata Memorial Centre, Kharaghar, Navi Mumbai, India. Website: actrec.gov.in/
- Dr. Sultan Pradhan, Prince Aly Khan Hospital, Mumbai, India. Website: agakanhhospitals.org/mumbai/
- Dr. Nagraj Huillgol, Balabhai Nanavati Cancer Centre, Mumbai, India. Website: http://www.nanavatihospital.org/
- Dr. Ashok Mehta, BSES MG Hospital, Mumbai, India. Website: http://www.ghrc-bk.org
- Dr. Prabha Nair, Tissue Engineering and Regeneration Technologies Division, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala, India. Website: sctimst.ac.in/

Funding organizations

- Department of Science and Technology (DST), Govt. of India
- ICMR, Govt. of India

School of Science has signed MOUs with following institutions that would allow faculty/student exchange:

- Institute of Chemical Technology, Matunga, Mumbai. Website: ictmumbai.edu.in
- Cellular and Molecular Imaging Laboratory, Henry Ford Health System, Detroit, Michigan, USA. Website: radiologyresearch.org/Molecularimaging
- School of Regenerative Medicine, Bangalore, Manipal University – Research in the area of stem cells/cancer stem cells. Website: manipal.edu/institutions/regenerativemedicine/sormbangalore
Infrastructure

Library
NMIMS has a state-of-the-art library accessible to students and faculty. The library database (OPAC) includes books (more than 41,000), Journals (315), E-journals (more than 5000), databases (14) and technical reports.

Computer Lab
The computer lab at the School of Science has ten computers connected to internet exclusively for students. Apart from that, two computer labs with 80 workstations connected to internet are available for the use of the students at the main Computer Lab at NMIMS.

Lab Facility
The School of Science has state of art laboratories one amongst them is the Tissue Culture Lab. The seminar halls / classrooms are air conditioned with excellent infrastructure for conducting research in biological and chemical sciences.

Instruments Available
Real Time PCR
Electrotransfer Unit - Technosource Pvt Ltd
HPLC-UV (2) - Jasco (1), Agilent (1)
HPLC-UV/Fluorescence - Jasco 1500 Series
Electro chemical detector - ESA Coulchem II
Photo Diode Array (PDA) detector - Jasco
Supercritical Fluid Chromatography / Extraction-UV-Jasco 900 Series
FT/IR - Jasco - 460 Plus
Inverted Phase Contrast Microscope - Carl Zeiss
CO2 Incubator - ThermaElectron
MBE 2000 Liquid Nitrogen Cryosystem - MBE
Class II Biosafety Cabinet - Esco
2710 Thermal cycler (PCR machine) - Applied Biosystems (Lab India)
ELISA reader - Biorad
Karl Fischer - VeegoMatic - MD
Disintegration - Veego
Beyond Academics: A Holistic Approach

**Journal Club**
A platform for the students to enhance their academic knowledge as well as presentation skills.

**Quality Cell**
Development and maintenance of infrastructure.

**Industrial Interface Cell**
Building a bridge to connect the students to the industries via guest lectures, visits, etc.

**Placement Cell**
Help students to reach to the industry.

**Social Responsibility Cell**
Lending a helping hand to the society.
A peer reviewed open access journal, published by NMIMS's School of Science for promoting the advancement of ideas in the interdisciplinary realms of Science and Technology.

Open Day

Spread awareness among the students at undergrad level regarding the various research activities that are carried in different scientific fields at the Masters and Doctoral programmes at SOS.

National Education Day

A two-day “National Symposium” on Multi disciplinary Research in Biomedical and Applied Sciences.

Cheerz Club

Extra-curricular fun activities.
Areas of Specialization

**Stem Cells**
- Isolation, characterization and differentiation of stem cells from various sources.
- Comprehending the stem cell differentiation process, tissue engineering, miRNA profiling.
- Novel nanoparticles synthesis for *in vivo* stem cell tracking.

**Cancer Biology**
- Genomic milieu of the individuals, associated with diverse cellular pathways forming in development of oral cancer.
- Identify, confirm and validate critical SNPs as biomarkers to translate into a Predictive Diagnostic test, for screening increased risk to developing oral cancer in long term tobacco users.

**Nanosciences**
 Nanotechnology in biological applications.
- Synthesis of silver nanoparticles using plant extracts against oral pathogens.
- Arsenic trioxide nanoparticles in prostate cancer therapeutics.
- Magnetic iron oxide nanoparticles for stem cell tracking.
- Selenium nanoparticles in rheumatoid arthritis.
- Nanoparticle-biomolecule interaction.
- Nanoformulation for antimalarial drug delivery.
- Carbon Nanotubes in water purification.

**Pharmacology**
 Pharmacological activities of medicinal plants against various diseases.
- Biological assays.
- *In vivo* to detect pharmacological activities.
**Microbiology**

**Environmental Microbiology**
- Microbial fuel cell
- Feather/Chitin degrading microbes

**Medical Microbiology**
- Antimicrobial studies
- Anti quorum sensing study
- Industrial microbiology
- Enhancement of biofuel production

**Enzyme Technology**
Isolation, purification, characterization and applications
- Chitinase
- Keratinase
- Protease
- Alliinase
- Thermostable solvent tolerant lipase

**Phytochemistry**
- Pure and applied plant chemistry.
- Plant biochemistry and plant secondary compounds.
- Analytical properties.

**Chiral Chemistry**
- Determination of enantiomeric purity of pharmaceutical agents.

**Analytical Chemistry**
- Stability studies and impurity profiling.
- Bioavailability studies.
- Separation, identification and quantification of chemical components of drug formulations.
- Isolation of phytoconstituents using supercritical fluid extraction technique.

**Biostatistics**
- Comprehension and analysis of biological data through contemporary statistical packages.
Awards and Scholarships

• Ms. Swati Chitrangi, PhD scholar, Biological Sciences, Jawaharlal Nehru Scholarship for Doctoral Studies (2014).

• Ms. Shruti Taparia, PhD scholar, Biological Science, Awarded Junior Research Fellowship securing All India 8th rank in Joint CSIR-UGC NET Examination.

• Ms. Viraj Gala, PhD scholar, Biological Sciences, Indian Council of Medical Research (ICMR) Senior Research fellowship awarded on basis of PhD progress and publication of research papers.

• Mr. Animesh Deval, Ms. Akshata Raut and Ms. Wendy D’Souza, PhD scholars, Biological Sciences, Awarded INSPIRE (Innovation in Science Pursuit for Inspired Research) Fellowship, Department of Science and Technology, Ministry of Science and Technology, Government of India, under the ‘Assured Opportunity for Research Careers’ (AORC).

Awarded Best Oral / Poster Presentations at National / International Conferences

10 AWARDS
Research Poster Presentations

4 AWARDS
Research Oral Presentations
Industrial Training

A. Advanced Centre for Treatment, Research & Education in Cancer (ACTREC)
B. Bombay Hospital
Bharat Serum and Vaccines Ltd.
E. Envirocare Labs Pvt. Ltd.
F. Foundation of Medical Research (FMR)
H. Hinduja Hospital & Medical Research Centre
Hurkisondas Hospital
G. Garda Chemicals Ltd.
I. IPCA Laboratories Ltd.
Indian Institute of Technology Bombay (IIT-B)
Indian Institute of Science Education & Research (IISER)
J. Jaslok Hospital & Research Centre
K. Kokilaben Dhirubhai Ambani Hospital
And Medical Research Institute
L. LNJ Research Laboratory
M. Mumbai University
Metropolis
Macleods Pharmaceuticals Ltd.
N. Nanavati Hospital
Navjeena Blood Bank & Laboratory
National Institute for Research in Reproductive Health (NIRRH)
National Institute of Immuno Haematology (NIIH)
R. Reliance Life Sciences
Ramnarayan Ruia College
P. Pfizer, Inc
T. Therapeutic Drug Monitoring (TDM) Laboratories
Working of a Placement Cell

1. Placement Cell reaches out to the corporate / organizations and invites them to be a part of placement season.

2. Organizations share their company profile and JD with the Placement Cell / Pre-placement Talk (optional).

3. Placement Cell shares student profile of interested candidates with the HR of the organization.


5. Organizations have to furnish the final list of selected students as soon as the completion of the selection procedure.

6. The Placement Cell also coordinates the signing of offer letters by students who have been selected to ensure that they fulfill all the requirements of the organizations.

Contact us

Prof. Sunil Shirvaiker, Area Chairperson Placements
Tel: + 91 22 4219 9982 • Email: sunil.shirvaiker@nmims.edu

Dr. Aparna Khanna, Placement Advisor (Biological and Chemical Sciences)
Tel: + 91 22 4219 9981 • Email: aparna.khanna@nmims.edu

Ms. Ashita Dara, Coordinator
Tel: + 91 22 4219 9940 • Email: ashita.dara@nmims.edu

Mrs. Shailee Ray, Placement Co-ordinator
Tel: +9619743818 • Email: shailee.ray@nmims.edu

Student Placement Coordinators:
Krishna Deshpande, krishnadeshpande01@gmail.com • +919768239212
Sagar Chhabria, sagarchhabria7@gmail.com • +91 9869820610
Why Recruit Us?

Core Competencies
Our Ph.D. programs in Biological and Chemical Sciences are robust with understanding of the basics and industry-oriented.

The projects are conceptualized based on a teamwork between the students, experienced faculty and gamut of industry and academia experts. We believe that this approach not only makes a student industry ready but also helps them device original questions at the very start of their careers with intellectual inputs from experts.

The students get hands-on experience in quantitative and qualitative research techniques, collection, and management of data and have access to advanced statistical analysis packages like SPSS, SAS, etc.

Internships and Workshops
At NMIMS School of Science, we believe that internships and workshops are an integral part of a student’s overall academic achievement. Our M.Sc. and Ph.D. students actively participate in various summer internships and workshops, to gain first-hand experience of the professional world.

We believe these internships and workshops help in making the candidates industry-ready and equip them for immediate employment.

We also provide an interface for companies and universities to interact with the bright and motivated students of our school and help in building and sustaining relations with companies, universities and social organizations who wish to recruit students from School of Science for internships and research opportunities.

Student Projects
Our Ph.D. students are actively involved in application-oriented projects under the guidance of experienced faculty. Moreover, our M.Sc. students are required to undertake dissertation projects in collaboration with esteemed institutes and industries, to give them hands-on experience on the recent technology, working environment and to make them industry-ready.

Publications
Students publish their research work in the form of papers in peer reviewed national and international journals of repute.

Patents
Students with innovative solutions are encouraged to file for national and international patents.
Alumni in Leadership Positions

Dr. Dipti Lakhe  
Lecturer  
VJTI College  
Mumbai

Dr. Hetal Sampat  
Assistant Professor  
Chemistry Department  
Mithibai College

Dr. Lavu S. Parab  
Consumables and Supplies for HPLC/GC  
Agilent Technologies Pvt. Ltd.  
Mumbai

Dr. Payal Joshi  
Assistant Professor  
Chemical Engineering  
Mukesh Patel School of Technology, Management and Engineering, NMIMS

Dr. Pratibha Verma  
QC Assistant Chemist  
NEM Lab Pvt. Ltd.  
Vasai, Mumbai

Dr. Varsha Namboodiry  
Assistant Editor  
Oxford University Press  
Delhi

Anuja Phatak  
PhD Scholar  
Louisiana State University  
U.S.A.

Pooja Bhamgude  
Research Editor  
Crimson Interactive

Rohit Vaidya  
Medical Coding  
Gebbs Healthcare Solutions

Suchi Vora  
Junior Research officer  
R & D Department  
SRL Diagnostics

Sudha Savant  
PhD scholar  
Indiana School Of Medicine

Supriya Mhamunkar  
Officer, R&D API AMD  
FDC ltd.

Trupti Shetty  
Project Fellow,  
TIFR

Tulip Nandu  
Computation Biologist  
UT Southwestern Medical Centre  
Dallas

Yuvraj Kantak  
Research Editor  
Crimson Interactive
Associates / Recruiters