

PLACEMENT 2014-15



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:



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/sorombangalore

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 - ThermoElectron

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.



Biomedical Research Journal

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

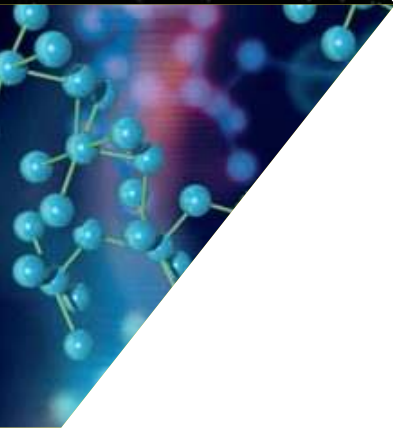
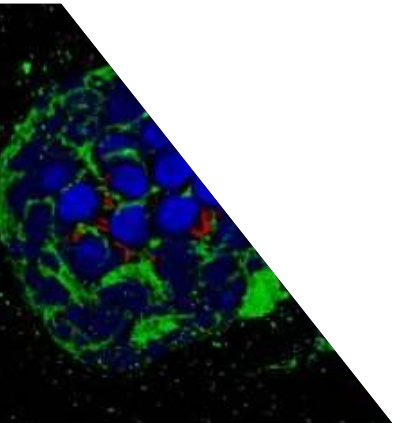
Nanotechnology in biological applications.

- 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 vitro* (cellular and biochemical functions).
- *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

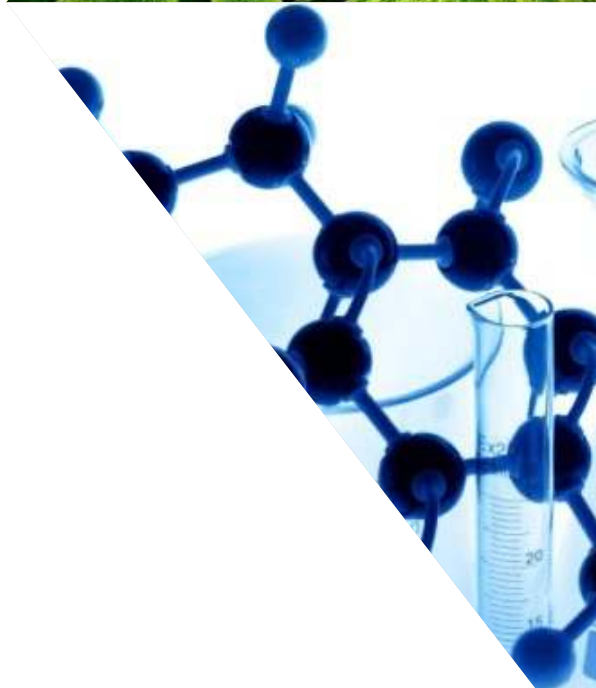
- Determination of enantiomeric purity of pharmaceutical agents.

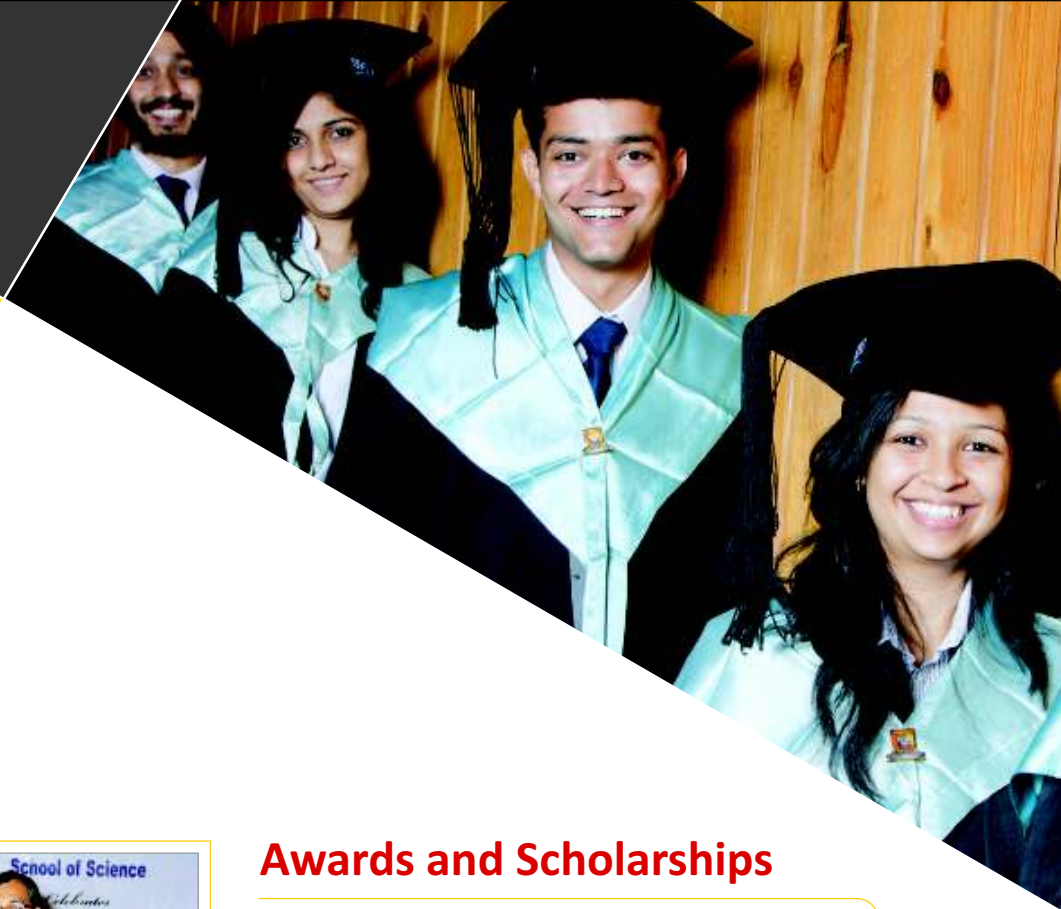
Analytical Chemistry

- 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



Research Poster Presentations



Research Oral Presentations

Industrial Training



Advanced Centre for Treatment,
Research & Education in Cancer (ACTREC)



Bombay Hospital
Bharat Serum and Vaccines Ltd.



Envirocare Labs Pvt. Ltd.



Foundation of Medical Research (FMR)



Hinduja Hospital & Medical Research Centre
Hurkisondas Hospital



Garda Chemicals Ltd.



IPCA Laboratories Ltd.
Indian Institute of Technology Bombay (IIT-B)
Indian Institute of Science Education & Research (IISER)



Jaslok Hospital & Research Centre



Kokilaben Dhirubhai Ambani Hospital
And Medical Research Institute



L N J Research Laboratory



Mumbai University
Metropolis
Macleods Pharmaceuticals Ltd.



Nanavati Hospital
Navjeena Blood Bank & Laboratory
National Institute for Research in Reproductive Health (NIRRH)
National Institute of Immuno Haematology (NIH)



Reliance Life Sciences
Ramnarayan Ruia College



Pfizer, Inc



Therapeutic Drug Monitoring (TDM) Laboratories

Working of a Placement Cell



Contact us

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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.

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.

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.



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 Katak

Research Editor
Crimson Interactive



Associates / Recruiters

 <p>Sir Harkisondas Nurrotumdas Hospital & Research Centre</p>	 <p>The Foundation for Medical Research</p>	 <p>Reliance LIFE SCIENCES</p>
 <p>National Institute for Research in Reproductive Health राष्ट्रीय प्रजनन स्वास्थ्य अनुसंधान संस्थान</p>		 <p>FDC</p>
 <p>OXFORD UNIVERSITY PRESS</p>	 <p>Crimson INTERACTIVE</p>	 <p>NEM Laboratories Pvt. Ltd.</p>
 <p>ipca</p>	 <p>ACTREC Tata Memorial Centre Advanced Centre for Treatment, Research & Education in Cancer</p>	
 <p>METROPOLIS EXCELLENCE IN DIAGNOSTICS</p>	 <p>Cactus COMMUNICATIONS</p>	 <p>SRL Diagnostics</p>
 <p>राष्ट्रीय प्रतिरक्षा रूधिर विज्ञान संस्थान NATIONAL INSTITUTE OF IMMUNOHAEMATOLOGY</p>		

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