

DEPARTMENT OF CHEMISTRY M.Sc. Chemistry



Placement Brochure



VISION

• To be globally recognized as a premier institution engaged in cutting-edge research in Basic and Applied Sciences

MISSION

- To be a Center of Excellence providing quality education and research training.
- To translate research outcome for betterment of society
- To collaborate with Educational Institutions/Universities of repute in frontier areas of Science and Technology





MESSAGE FROM THE DEAN



Dr. Neetin Desai Dean SVKM's NMIMS Sunandan Divatia School of Science The SVKM's NMIMS Sunandan Divatia School of Science, was born out of the foresight of the University with a view to providing undergraduate and post-graduate students an opportunity to venture into the fascinating world of Sciences. The School aspires to be a Centre of Excellence by creating a conducive student-centric environment that supports high quality teaching and research in niche areas of Science & Technology.

The Master's program in Chemical Sciences is to develop а designed student's scientific. experimental and analytical skills. Further, the research-intensive and laboratory-based curriculum covers contemporary subjects and is intended to meet the needs of the ever-evolving chemical & pharmaceutical industry, diagnostics medical research organizations industry, clinical and research institutions. Our students have been trained by excellent faculty who have a strong background. academic research Besides, the students exposed are to state-of-the-art infrastructure and equipment to enhance their hands Moreover, the compulsory research on skills. project as part of the curriculum, develops their technical skills and makes them ready to face the industry. To ensure a holistic development of the student, besides academics, students are a part of various committees/cells to hone their creative. social, cultural and inter-personal skills.

I take the pleasure in inviting companies to our School for placements. Our effort is to enable interaction between students and companies to find the best match between their aspirations and requirements.



SVKM's NMIMS The introduced, highly innovative and unique interdisciplinary courses at the Sunandan Divatia School of Science from the academic year 2007-2008. All the Curriculums offered at the Sunandan Divatia School of Science are programs involving 'Research' and hence research constitutes a major thrust in all the programs. The focus is to generate a pool of highly qualified scientific talent who can fulfil the needs of Research Institutions as well as the demands in an industry setting. Thus the programs ensure employability; address global demands and community development.

We conduct guest lectures by experts from different sectors which helps students to know the various applications in their subjects. We focus on development of student through case studies, presentations, research approach in journal club, soft skills etc. Students are also a part of various committees/cells to hone their creative, social, cultural and inter-personal skills.

Our last year batch got final placement from good companies/organizations like Jove, Asian paint, Yasham Speciality ingredients, Clearsynth, Firmenich, Lupin Pharmaceuticals, Bio-Genomics, Zydus Cadila, etc.

We welcome you to our final placement process at NMIMS Sunandan Divatia School of Science.

PLACEMENT AREA CHAIRPERSON'S MESSAGE



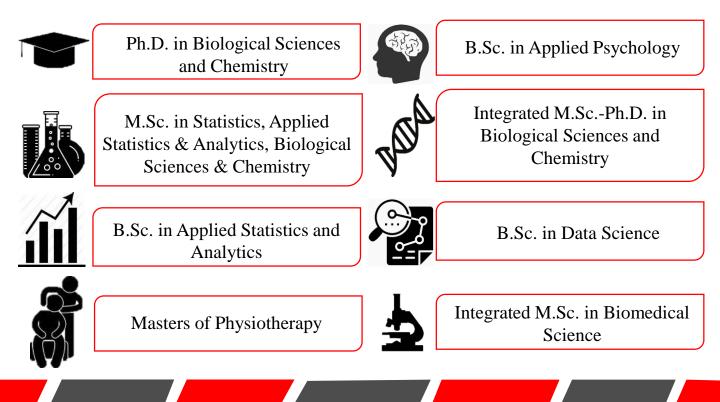
Sunil S. Shirvaiker Area Chairperson (Placements) SVKM's NMIMS Sunandan Divatia School of Science



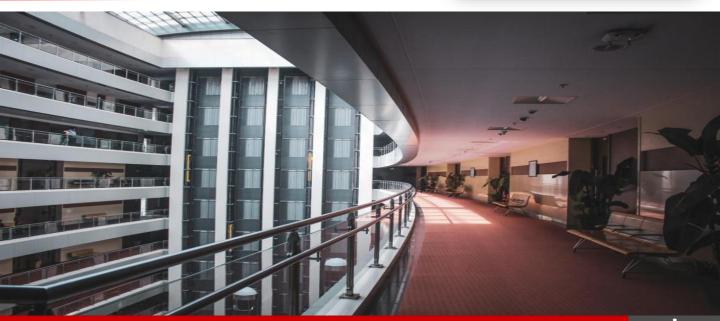
NMIMS SDSOS

Sunandan Divatia School of Science was started in 2007 with a view to provide undergraduate and post graduate students an opportunity to be a part of the unique learning methodology of the university, which lays emphasis on academic excellence combined with industry oriented training. The goal of the Sunandan Divatia School of Science is to be a Centre of Excellence in the domain of Pure and Applied Science by providing quality education and research.

Currently the school is offering following programs:







DEPARTMENT OF CHEMISTRY

- The Department of Chemistry offers degrees in M.Sc. Chemistry, Integrated M.Sc.-Ph.D. Chemistry, Ph.D. Chemistry (Regular & Professional). The courses are reviewed regularly in consultation with our Board of Studies, which comprises of experts from academia, research institutions and industry from all over India. Thus, the courses are tailor made to fulfil the requirements needed to keep pace with the current developments in scientific research
- ➤ In the first year, along with the permanent faculties, the regular lectures are also conducted by visiting faculties who are experts in their respective fields. Apart from the course work, the Faculty also conducts Guest lectures by eminent academicians and scientists, paper presentations (Journal Club), etc. to ensure learner centric environment
- After the 3rd semester in the second year students undertake 6 months research projects on varied topics either in industry or research institutions of repute

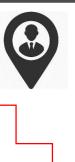




Journey at NMIMS

FINAL PLACEMENTS

- Emphasis on Employability
 - Industry Oriented Education
- Inculcation of work ethics
- Mock interviews



DISSERTION PROJECT

- Student Counselling in order to learn their subject interests.
- Research projects at reputed institutes.

RIGOROUS CURRICULUM

- Interdisciplinary curriculum
- Broad Domain Knowledge
- Inculcation of Research Aptitude
- Development of Interpersonal Skills
- Research seminar/Journal club
- Guest talks/Industrial visits



ENTRY INTO NMIMS

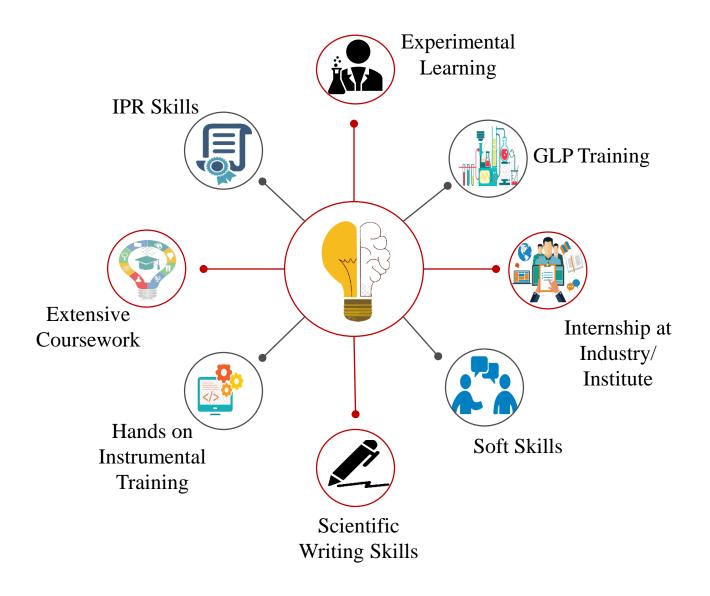
Chemistry Graduates
Applicants



- Screening by Written test
- Selection by Interview
 - Performance



WHY RECRUIT US ?







EXTENSIVE COURSEWORK

Semester I

Analytical Chemistry

Physical Chemistry

Inorganic Chemistry

Organic Chemistry

Semester III

Organic Chemistry

Analytical Chemistry

Materials Chemistry

Semester II

Advanced Organic Chemistry

Nanoscience & Nanotechnology

Research Methodology & IPR

Environmental & Green Chemistry

Semester IV

Dissertation Project at Research Institutes or Industry

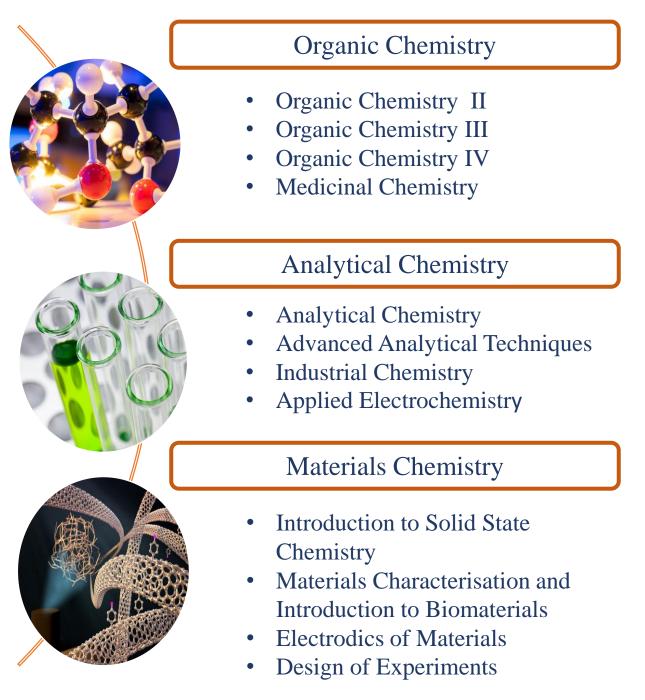


SPECIALIZATION IN CHEMISTRY

SUNANDAN DIVATIA SCHOOL OF SCIENCE

NMIMS

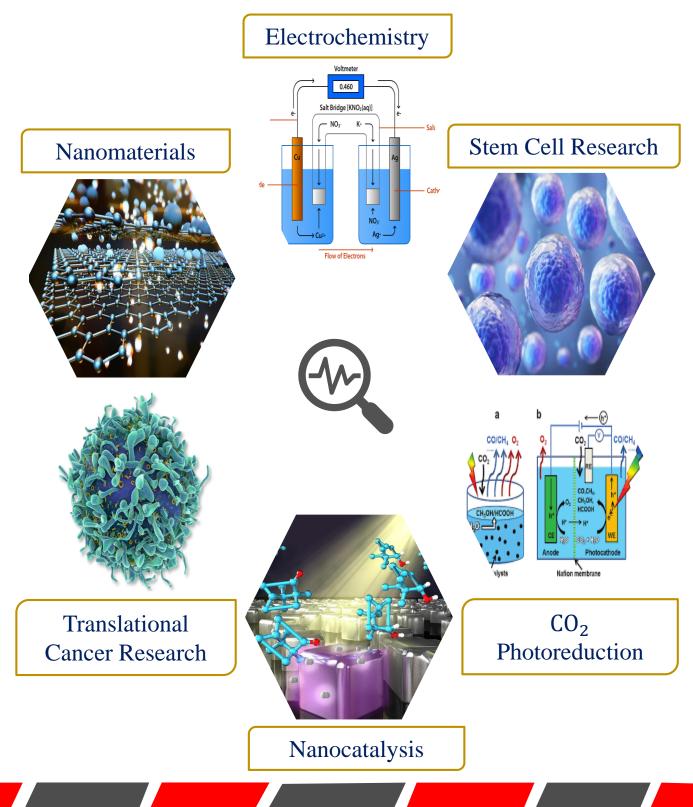
Specialization has been provided in 3 disciplinary subjects in chemistry, where we provide the following coursework.





NMIMS

RESEARCH AT SDSOS





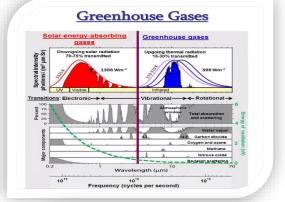


<u>Online Learning</u> <u>A Panacea in the Time of COVID-19</u>

The COVID-19 pandemic has shaken the world to its core. It all began with the announcement of the nationwide lockdown for 21 days that was further extended for months. Additionally, most of the governments around the world had temporarily closed.

At the time when the universities were at forefront battling against the virus, SVKM'S NMIMS was one of the first institutes to commence with the process of E-Learning & NMIMS with its teaching. thoughtful leadership, vision & regulations initiated the process of online academic learning & with the activities in tandem academic calendar.

Online entrance exams, Interviews & admissions were scheduled & in no time the academic session had begun amidst the crisis.





Career Opportunities in (industrial) R&D

Quantum mechanical calculation of most favoured conformation of a *drug* molecule will *also* be of interest to industry (not just any molecule).

To sum up, research in industry covers the entire gamut starting from basic research to product development, process development, testing and quality control.

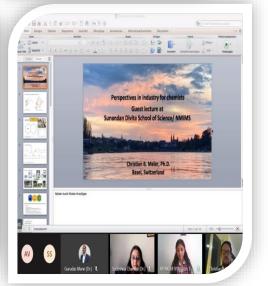
Phenomenological studies which is actually basic or fundamental research are also done in industrial R&D.

If the work is enabling a product development, it is of interest. The profit motive is the over ruling criteria for industry.

Each of the 'branches' in R&D is different in nature and needs different kind of expertise.

For e.g. QC is a highly repetitive activity with focus on reproducibility while Testing requires focus on accuracy rather than speed. Basic research suits an exploratory and questioning mind while product development requires focus on end objective.









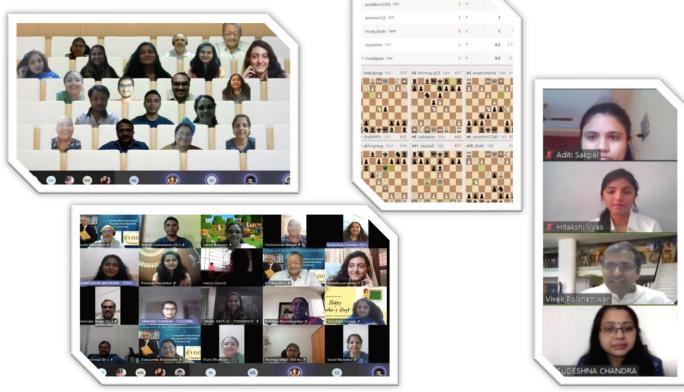
<u>Online Learning</u> <u>A Panacea in the Time of COVID-19</u>

The Online lockdown activities:

- Orientation Program
- Independence Day Celebration
- The Student Council Committee (2020-2021) was set up along with various Clubs such as Science, Sports etc.
- The Placement cell Selection (2020-2022)
- Mentor-Mentee Sessions

SVKM'S NMIMS 18th Annual Celebration, various Guest Talks and so on and so forth. It left no stone unturned to make the students and the teachers feel welcoming to the virtual world.

During the turbulent times, with such an ease, everyone was adhering to this new virtual environment, imbibing knowledge and inculcating to the new fields of education and activities





SUNANDAN DIVATIA SCHOOL OF SCIENCE





COLLABORATIONS WITH INTERNATIONAL





INTERNATIONAL COLLABORATIONS



- ➢ IPUR Funding
- Prof. Dr. Antje Baeumner
- ECL- based Nano -Immunosensor for Liver Cancer

Technische Universität Chemnitz

- ➢ InPro TUC finding
- ➢ Prof. Dr. Heinrich Lang
- Ink-Jet printing of dendrimer-magnetic nanoparticles

CSIR SUMMER INTERNSHIP



Kurukshetra University, Haryana:

- Finding the various phospholipids present in milk
- Determining structure of phospholipids using analytical techniques like NMR, XRD, HPLC etc.
- Finding out about the cardiovascular diseases caused by imbalance of phospholipids in the human body

Done by: Sanjana Singh Guide: Dr. Vijay Kumar Kurukshetra University, Haryana





LAB INFRASTRUCTURE





Photoreactor



Tube Furnace

HPLC





LAB INFRASTRUCTURE



Dissolution Apparatus





ATR-FTIR





Shimadzu UV-Vis Spectrophotometer

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PLACEMENT ACTIVITIES



Guest Talk (14/08/2021) **Recruitment Vs Covid** By Mr. Nirvikar Hingane & Mr. Robin Alva



NMIMS

SUNANDAN DIVATIA

SCHOOL OF SCIENCE

Guest Talk (28/08/2021) **Insights of Paint Industry** By Mr. Ritesh Bhavsar





Industrial Visit by M.Sc. Students at Anchrom Enterprises





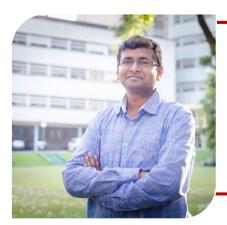




Dr. Vandana Patravale

Professor of Pharmaceuticals Institute of Chemical Technology (ICT)

Topic: Computational Pharmaceuticals & Drug Targeting (07/01/2021)



Dr. Vivek Polshettiwar

Associate Professor Tata Institute of Fundamental Research (TIFR) **Topic:** Climate Change &

Nano-Chemistry (05/02/2021)

Dr. Mohan Rao

Former Vice President Pidilite Industries

Topic: Career Opportunities in the Industrial Sector (R&D) (12/02/2021)







GUEST LECTURES



Dr. Prashant Kharkar

Professor of Medicinal Chemistry Institute of Chemical Technology (ICT)

Topic: Machine learning tools in Biomedical Science (27/02/2021)



Dr. Amit Asthana

Associate Professor Dept. of Pharmaceuticals Analysis (NIPER) **Topic:** Affordability of diagnosis using paper-based devices (06/03/2021)



Dr. Christian B. Meier

Application Scientist Chemspeed Technologies & Tecan (Zurich/ Switzerland)

Topic: Perspectives in industry for chemists (30/03/2021)





- The virtual edition of the Choose France Tour 2021 was organized by the Embassy of France in India and Campus France, on 26th -27th February 2021 via Zoom.
- More than 40 public and private institutions from France were present. They specialize in Engineering, Management, Tourism & Hospitality, Design & Arts.
- These institutions offer more than 1600 graduate, post-graduate and doctoral programmes in English and even more in French
- During the Tour, one-on-one counselling sessions on public and private chats with each school were done.

Conducted by: Vikash Golla, Manager, Campus France - Mumbai, Institut Français en Inde, Embassy of France - India





SUNANDAN DIVATIA

SCHOOL OF SCIENCE









Alvita



CHEMICALS LTD The Finishing Specialist











MUKESH PATEL SCHOOL OF **TECHNOLOGY MANAGEMENT** & ENGINEERING













2019-20











Crimson Interactive























PLACEMENTS 2020-21



















EMINENT ALUMNI:TESTIMONIALS (2018-2020)



Think different is one thing that SDSOS NMIMS urges and to some extent, succeeds in teaching their students which invariably helps us achieve what we need. The institute provided me with the platform to work as an intern for 6 months under reputed pharmaceutical company. Being a chemist and getting placed in multinational paint company .Asian Paints in the beginning of my career is a dream come true. I am really thankful to our Dean, our faculties of chemistry department, and non-teaching staff for inculcating a sense of confidence in me.

NMIMS

PRUTHA PATEL *incl* (**Researcher – Asian Paints**)

> My experience at NMIMS deemed to be University is great and memorable. The teachers and mentors are really helpful and that helped me to improve my academic and interpersonal skills. I thank NMIMS & all the faculties for putting in all the efforts to groom us and make us corporate professionals



JINAL PATEL (Inventory & Dispatch Ex – Clearsynth)



MAHAGANESH (Lab Assistant – Firmenich)

I can positively say that NMIMS SDSOS has been the best part of my life. I am grateful to NMIMS SDSOS for the environment they provided to us. The number of topics available here in different subjects is vast as compared to other colleges. The syllabus is industry oriented which helped me to learn about the latest instruments & technologies which are in demand in the current industries.. With the help of the placement cell, I got placed in one of the largest company like Firmenich aromatics Pvt. Ltd





EMINENT ALUMNI:TESTIMONIALS (2019-21)



A wonderful two year journey is difficult to be mentioned in just a few sentences. I can see myself transformed in a productive manner in terms of knowledge, conduct and confidence during this journey. NMIMS Sunandan Divatia School of Science has provided me a platform to nurture and develop my abilities and now I can consider myself prepared for a professional environment. I feel blessed to be a part of this institute and would like to thank the excellent faculty of the Chemistry department for their guidance.

NIDHI PAWAR (Sales Ex – Firmenich)

My 2 years of education at NMIMS-SDSOS was one of the best years of my academic journey. I've grown overall a lot as a person in this time span. The staff and professors are easy to approach. The courses offered are designed in such a way that students get both research and industrial experience. The extra-curricular activities help students to strengthen and explore their talents. Thank you NMIMS for making this journey memorable.



LETIZIA MAHE



To express this whole wonderful journey in few lines is definitely a task, learning in NMIMS has been fun with acquiring knowledge. The professors assisted us with learning the subject topic in the best way possible taking it to the profundity. We also performed experiments on variety of instruments in the laboratory gaining hands on experience. Guest lectures that were arranged has helped us to make decisions in a better way. Apart from scholastics, various fests, competitions and events were a cheery on top.

DHARA JOSHI (Business Development- Clearsynth)





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Bhushan Ganeshpure Graduated from Thakur College of Science & Commerce



Aadarsh Sharma Graduated from Bhavan's College



SUNANDAN DIVATIA SCHOOL OF SCIENCE

Prajeet Khedekar Graduated from Thakur College of Science & Commerce



Vanisha Katta Graduated from Thakur College of Science & Commerce



Abhay Dubey Graduated from Bhavan's College

CLASS OF M.Sc. CHEMISTRY 2020-2022



26

Riya Dubey Graduated from Thakur College of Science & Commerce



Darshan Solanki Graduated from Thakur College of Science & Commerce



SUNANDAN DIVATIA SCHOOL OF SCIENCE

Vighnesh Chandan Graduated from Mithibai (Autonomus) College



Mohd. Arfaat Shaikh Graduated from Bhavan's College



Salman Shah Graduated from Bhavan's College

CLASS OF M.Sc. CHEMISTRY 2020-2022



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Ameesha Bhargava Graduated from St. Xavier's (Autonomus) College



Yugashree Surve Graduated from Bhavan's College



SUNANDAN DIVATIA SCHOOL OF SCIENCE

Reeti Panchal Graduated from Mithibai (Autonomus) College



Twinkle Parashar Graduated from R.D National College



Hitakshi Vyas Graduated from Jai Hind (Autonomus) College





CLASS OF M.Sc. CHEMISTRY 2020-2022



Aditi Sakpal Graduated from Mithibai (Autonomus) College



Srushti Rane Graduated from Mithibai (Autonomus) College



Vinay Adhikari Graduated from Bhavan's College



Sajida Sayed Graduated from Thakur College of Science & Commerce



Priyaj Pathak Graduated from Navrachna University, Vadodara (Deemed)



Sweta Samala Graduated from Jai Hind (Autonomus) College





STUDENT PLACEMENT COMMITTEE

<u>2020-2022</u>









VINAY ADHIKARI TWINKLE PARASHAR

PRESIDENT

VICE PRESIDENTS



ADITI SAKPAL



VANISHA KATTA

CO-ORDINATORS





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