

- Careers in academia, R&D and Industry.
- Training and placement cell at the university helps to place students for their internships and have a record of achieving 100 percent placements in the already ongoing courses like M.Sc Chemistry.
- Highly qualified faculties, mentors who have a vast experience of more than 40 years of research and academics, industry experts who shall constantly prepare students for their specialized roles in different sectors of industry and research organizations.
- Summer projects and hands on training shall be the focus.
- Guidance for Doctoral studies and competitive exams like CSIR NET, IFS, IAS, UPSC etc shall also be provided as and where needed.
- Special emphasis on regulatory affairs for those aspiring to work in pharmaceuticals.
- Need based expert inputs to allow students to be what they want to be.
- Structure has provision for extra credits for areas of special interest to students.
- State of art infrastructure
- Opportunity to work on ongoing projects and on novel unexplored areas

Eligibility : • Candidates who have completed their B.Sc. degree from any reputed college or university in any of the following subjects with minimum 50% aggregate marks: Botany, biochemistry, biotechnology, life science, microbiology and zoology and Biological Sciences. Students with Chemistry background may apply for Biochemistry specialization.

- The merit list will be based on the aggregate marks obtained in major and minor subjects as in the three year program.

Admission Process:

Eligible candidates shall be called based on merit followed by interview with the experts.



BE WHAT YOU WANT TO BE

At NUV, we believe that students must achieve a good balance of academic productivity and collegial delight through an experience that connects what they do inside and outside the classroom. Students have plenty of opportunities to pursue personal interests with friends while undergoing a rigorous education, and make time at the University rich, substantial and fulfilling.

Student life at Navrachana University is vibrant and thriving with a variety of events round the year. In addition to academics, field trips and educational tours, NUV students are active around and beyond campus. Whether students are playing through the NUV Sports Club or cheering for friends, they are always busy participating and directing cultural events, organizing and attending Guest Lectures, participating and managing Workshops, administering and directing Quizzes, or participating, managing and organizing Extra-curricular activities – they are always busy.



'Educating the mind without educating the heart is no education at all' - Aristotle

To pursue personal interest, there are several student-run clubs like the Automates@NUV, Business@NUV, Engineering@NUV, Management@NUV, ScienceIT@NUV, Music@NUV, Dance@NUV, Theatre@NUV, Computers@NUV and Design@NUV that allow education to flourish with other interests.

- SCHOOL OF BUSINESS AND LAW**
- SCHOOL OF ENGINEERING AND TECHNOLOGY**
- SCHOOL OF LIBERAL STUDIES AND EDUCATION**
- SCHOOL OF ENVIRONMENTAL DESIGN AND ARCHITECTURE**

For admissions inquiries and application forms, please contact 0265-3020 100, 2255 520/ 30/ 40 or write to us at admission@nuv.ac.in or visit www.nuv.ac.in or meet us at **Admissions Office, Navrachana University, Vasna-Bhayli Road, Vadodara 391 410**
Follow us at www.facebook.com/nuvofficial



MSc
Life Sciences



School of Liberal Studies and Education



NAVRACHANA UNIVERSITY

Navrachana University is a UGC approved University meeting norms and requirements of UGC and AICTE. Navrachana University comprises four schools offering a variety of under-graduate, post-graduate and doctoral programs. Some of the salient features are:



Student-centric education with a focus on inter-disciplinary learning, research, practical learning and hands-on education



Strict adherence to academic schedule and on-time examinations



Develops students with breadth of understanding through inter-disciplinary education and a depth of knowledge through focused disciplinary education



State-of-the-art infrastructure facilities: Wi-Fi enabled campus; well-equipped library; modern laboratories for computer, engineering, and sciences; workshop facility for engineering, architecture and design students; well-equipped studios for design and architecture students; a computer-aided language laboratory; moot court for law students; amphitheatre and cafeteria.

School of Liberal Studies and Education

Programs offered under Liberal Studies are Bachelor of Arts (Journalism & Mass Communication), Bachelor of Science (BSc+), Master of Science (Chemistry) and Master of Social Work (MSW). Under Teacher Education programs offered are: Bachelor of Education (BEd.), Master of Education (MEd.), Post graduate Diploma in Early Childhood Care and Education (ECCE) and Ph D (Education).



Well-known for its programs in teacher education which are NCTE approved, the School has a well-earned reputation in the field of teacher education due to its high quality curriculum, practice teaching and faculty research. The university, which has its roots in top quality schools, is well connected with the local education community and ensures that the knowledge and skills essential for a modern day teacher are adequately developed through its courses and successfully applied to the needs of schools and society. BEd has an excellent record (100%) in placement over the last eleven years.

M.Sc Life Sciences

21st century belongs to Life Sciences and is considered as "the fastest growing sector" by socialists, economists and scientific communities across the world. In order to keep pace with the scientific and technological advancements in the recent years, Life Sciences at NUV has specially designed unique and innovative programs so as to meet the increasing demand of skilled taskforce that shall be required for research and innovation in the upcoming future in this ever expanding field of Biology. These programs are outlined with a broad focus on all the key skills needed by a student in both disciplinary and interdisciplinary areas. There are a wide range of specializations that students can opt for ranging from the traditional to the most recent as well as some newly blended areas of focus, developed looking into the need of the future demands of industry and research. Some of these specializations offered under the

umbrella of life sciences are Cell and Molecular Biology, Genetics, Molecular medicine, Conservation Biology, Medico Botany to name a few.

The Masters Course lays emphasis on the overall development of laboratory skills of a research student coupled with an expansion of his/her knowledge base through specialized inputs for the course. The course work comprises of lectures and practicals along with skill building through technical and research oriented programs. The course is reviewed regularly in consultation with our Academic Advisory Board, which comprises of experts from academia, research institutions and industry from all over India. Thus, the course is tailor made to fulfill the requirements needed to compete with the current developments in scientific research. 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 and paper presentations (Journal Club) to ensure learner centric environment. In addition, methods like quiz, discussions, tutorials, Industry visits etc. are also envisaged by the faculty to benefit the students. There is state-of-art infrastructure and advanced laboratories with modern instrumentation needed for pursuing quality research and training.

Course Structure:

M.Sc in Life Sciences is a two year post graduate degree program. This course offers four different specializations namely, Plant Sciences, Animal Sciences, Biochemistry, Cellular and Molecular Biology. First year shall provide a broad base into aspects associated with the fundamental learning needed for Life Sciences, while the second year shall focus on specializations opted by the students with special electives for each of the given specializations. Fourth semester shall be completely dedicated towards dissertation thesis in the area of specialization elective as opted earlier. Industry and academia partnership shall ensure good quality research for students in this semester. Additionally, graduates shall be exposed to various interdisciplinary and skill enhancing courses during the first three semesters. Students shall be empowered for independent thinking and research as well as be capable of playing leading roles in industry. There shall be specialized inputs to encourage those interested to start their own start ups as is the philosophy of the University 'to be what you want to be'

Course Structure:

Semester	I	II	III	IV
Core Courses/ Semester	Five	Four core + One Elective for Specialization	Four specialization courses + One Elective for specialization	Two Seminar courses
Interdisciplinary Courses	One	One	One	Dissertation
Skill based courses	One	One	One	
Practical Courses	Two	Two	Two	
Total Credits	25	25	22	25

Program Highlights

- **LS: Plant Sciences** shall offer Special Electives in Herbal Medicine, Phytochemistry, Environmental Biology, Medico Botany and Applied Botany to meet the demand for the need of growing expertise in these areas.
- **LS: Animal Sciences** shall offer Special Electives in Reproductive Physiology, Toxicology, Conservation Biology, Entomology and Marine Biology
- **LS: Biochemistry** shall offer Special Electives in Nutritional Biochemistry, Neurochemistry, clinical Biochemistry, Biomedical Genomics and Plant Biochemistry
- **LS: Cellular and Molecular Biology** shall offer Special Electives Reproductive Biomedicine, Drug designing and discovery, Molecular Medicine and Human Genetics
- Contemporary curriculum to meet the needs of the Industry (Biotech, Pharma, Clinical data management, Molecular diagnostics)
- Students shall be actively involved in a full semester research and shall be taking up aspects that shall cut through some very important aspects of inter-dependence among the various sub disciplines of Biology.