Swami Rama Himalayan University

NAAC A+

ADMISSION PROSPECTUS 2025

SCHOOL OF BIOSCIENCES

srhu.edu.in

LIMITLESS VISION, BOUNDLESS INSPIRATION

FOUNDER'S LEGACY

Born in 1925 in Uttarakhand, H.H. Dr. Swami Rama was a Yogi, philosopher, scientist, and humanitarian. Mentored by luminaries like Mahatma Gandhi, Sri Aurobindo and Rabindranath Tagore, he pursued higher studies in India and Oxford before serving as a medical consultant in London and conducting parapsychological research in Moscow.

Guided by his master, he journeyed worldwide on a quest to bridge science and spirituality. Along the way, he founded an array of top-tier spiritual and medical institutions. In the 1970s, he established the Himalayan Institute of Yoga, Science & Philosophy in the U.S., pioneering research that proved the mind's power over the body. His yogic feats were featured in Encyclopedia Britannica (1973), influencing holistic medicine and biofeedback therapy.

Returning to India, he founded the Himalayan Institute Hospital Trust (HIHT) in Dehradun, transforming healthcare and education landscape of Uttarakhand. A sage ahead of his time, Swami Rama's legacy continues to inspire generations. His mission was to serve the people of Uttarakhand in the field of health, education, rural development and more.

"Your real education begins when you learn to explore and discover yourself."

HH Swami Rama

life ka compass

Can education be more than a transaction?

Instead of guiding students to just a degree and a career, can it provide a direction to life's journey? Can it create strength of character? Make high energy a habit? And forge a mindset where every challenge is faced with a resolute will to overcome?

At SRHU, we believe it must.

For us, the syllabus is a starting point, not the finishing line. We foster holistic growth. From practical work experience to thoughtful mentoring, from incubating ideas and transforming them to enterprises, to dedicated resources for developing leadership skills and more.

This is why, in addition to academic excellence born of rigour, we promote entrepreneurship, mentorship, leadership and real-life work experiences through internships, as a way of life.

This is why we practice a culture where life skills become second nature. And the course of life's journey is defined not just by momentum, but also direction.

A mindset summed up in our brand promise.

INTERNSHIP

ENTREPRENEURSHIP

MENTORSHIP

LEADERSHIP

CENTRE FOR INNOVATION AND ENTREPRENEURSHIP

CIE is the innovation and start-up incubator of SRHU, dedicated to nurturing entrepreneurial talent among students, faculty, and staff. It empowers individuals with mentorship, infrastructure, and strategic guidance to transform ideas into sustainable ventures.

MISSION

- Cultivate creativity and entrepreneurial thinking
- Connect academia with industry and investors
- Foster sustainable innovation and growth

SUPPORT SYSTEM

- Expert mentorship
- State-of-the-art workspaces
- Access to funding
- Business development support
- Networking opportunities

STUDENT VENTURES

Start-ups like The Food Project, ULO Labs, Rang De Hope, Mindura Yogwell, and SR Care Hive showcase student innovation.

KEY HIGHLIGHTS

- Incubated nationally recognised ventures such as Canfinis Therapeutics and Himfla Pvt. Ltd.
- Hosted industry events like the Uttarakhand Innovation Festival.
- Delivered entrepreneurial skill training through bootcamps and competitions like Rangotsav.
- Created social impact through ventures addressing real-world issues.

Transform your ideas into impact—with SRHU CIE.

INTERNSHIP

INTERNSHIP PROGRAMME

We believe real-world experience is as vital as academic learning.
Our Earn While Learn Scheme (EWLS) is a paid internship opportunity for students across most programmes. It provides hands-on industry exposure, academic support, job readiness training, and leadership development.

BENEFITS FOR STUDENTS

- Apply classroom knowledge in real-world settings.
- Gain valuable industry experience during your course.
- Develop workplace skills and leadership qualities.
- Earn while you learn.

ELIGIBILITY

- Undergraduate students: From the second year onward, based on university-set criteria.
- Postgraduate students: From the first year onward, based on university-set criteria.
- Note: Ph.D. students are not eligible for this scheme.

MENTORSHIP

MENTOR MENTEE PROGRAMME

Connects students with an experienced mentor – a member of the faculty, alumni or a senior student. Mentors draw on their rich experience to offer personalised guidance for both academic and personal development.

MENTOR MENTEE PROGRAMME

Personalised Guidance
Tailored advice on academics, career planning, skill development, and navigating university life.

Career and Professional Development
Insights into potential career paths, internships, job opportunities, and professional networking, ensuring students are well-prepared for the future.

Academic Support
Assistance with academic challenges, and advice on time management and study techniques.

Networking and Industry Insights
Mentees gain access to the mentor's professional network, opening up internships, job placements, and future collaborations.

Personal Growth and Confidence Building
The mentor-mentee relationship helps students build confidence, improve decision-making skills, and foster resilience.

Long-term Relationships
The aim is to create lasting mentor-mentee relationships that extend beyond university life, supporting students' transition into their professional careers.

CENTRE FOR PROFESSIONAL & COMMUNICATION ENRICHMENT (C-PACE)

A centre of excellence dedicated to enhancing students' communication and interpersonal skills, preparing them to thrive in academic, professional, and social spheres. Operating across seven colleges—including Engineering, Management, Nursing, and Biosciences—C-PACE empowers students through soft skills training, public speaking, and professional preparedness.

Its core offerings include:

1. Soft Skills Development – Training in spoken english, confidence building, and interpersonal skills.
2. Employability Enhancement – Guidance on resumes, interviews, group discussions, and networking.
3. Collaborative Learning – Discipline-specific programs tailored to diverse academic needs.

Student-led initiatives such as Younite and Model United Nations (MUN) offer experiential platforms for leadership, event management, and global engagement.

By bridging academic learning with real-world application, C-PACE ensures students emerge as confident, adaptable, and globally competent professionals—reflecting the university's commitment to holistic education and employability readiness.


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SCHOOL OF BIOSCIENCES

The School of Biosciences (SBS) offers life science courses and is recognised as one of the top biological sciences colleges in Dehradun, Uttarakhand. The school is committed to translational research, industrial applications, and skill-based education, making it a Centre of Excellence (CoE) in Biosciences.

What do we offer?

- High-quality education and training in advanced areas of life sciences.
- Strong emphasis on research, innovation, and industrial relevance.
- Well-equipped facilities for both basic and applied research.
- Holistic learning approach to develop skilled professionals for global opportunities.
- Graduates from SBS have diverse career opportunities in pharmaceuticals, biotechnology, food, dairy, agriculture, and biomedical research.

Why choose us?

- Hands-on experience in cutting-edge applied biosciences.
- Engaging, interactive, and interdisciplinary learning approach.
- State-of-the-art labs with advanced instrumentation.
- Modern teaching methods integrated with the latest technology.
- Personalised mentorship and holistic personality development.
- Flexible learning with a Choice-Based Credit System (CBCS).
- Strong industry-academia collaborations for career-ready education.
- Curriculum as per NEP 2020.

Faculty and Training

SBS boasts a highly qualified faculty with doctoral degrees and a blend of industry and academic experience. Their expertise ensures that the students receive both theoretical knowledge and insights from the industry.
Our student-centric approach promotes a deep understanding of subjects through a combination of:

- Lecture and laboratory sessions for practical learning.
- Guest lectures and workshops by industry experts.
- Industry visits and internships for hands-on experience.
- Projects and research work for skill enhancement.
- Digital and multimedia learning through advanced technology-integrated tools.
- One-on-one mentorship for career guidance.

Placements & Career Support

Graduates have diverse career opportunities in industries such as

- Pharmaceuticals
- Biochemical Research
- Food Technology
- Dairy Industry
- Agriculture
- Biomedical Research

The SBS Placement Cell maintains strong industry connections and offers 100% placement support along with summer internship opportunities.
Top recruiters include:

- Enzene Bio Sciences, Pune
- Akums Drugs
- Biological E.
- Intas, Baddi (HP)
- Kuick Market Research
- Patanjali Foods Limited
- Patanjali Research Foundation, Haridwar
- Natural Herbs & Formulations Ltd, Dehradun
- East African Overseas, Dehradun
- Central Silk Research Board, Dehradun

Additionally, SBS students have successfully qualified for NET and GATE and have secured prestigious scholarships for higher studies at institutions like ICMR, BARC Bombay, IISc Bangalore, and IITR Lucknow.

Highlights

- Consistent exposure in frontier areas of applied Biosciences.
- Interactive and integrative learning
- Sophisticated and advanced instrumentation facility.
- Most concurrent teaching and learning aids.
- 100% summer training assignments.
- Mentorship and personality development programmes.
- Choice Based Credit System (CBCS).
- Industry-academia interface.

Bioscience Programmes

Undergraduate Programmes

B.Sc. / B.Sc. (Hons.) / B.Sc. (Hons. with Research) Biotechnology.

B.Sc. / B.Sc. (Hons.) / B.Sc. (Hons. with Research) Microbiology.

B.Sc./ B.Sc. (Hons)/ B.Sc. (Hons) with Research in Food Science & Technology.

Postgraduate Programmes

M.Sc. Biochemistry
M.Sc. Biotechnology
M.Sc. Microbiology
M.Sc. Environmental Sciences
M.Sc. Pharmaceutical Chemistry

B.Sc. Microbiology

B.Sc. Microbiology at SRHU offers a comprehensive blend of theoretical knowledge and hands-on training in the study of microorganisms—organisms invisible to the naked eye.
The programme covers key areas such as biotechnology, molecular biology, microbial genetics, physiology, and instrumentation. With a strong emphasis on laboratory skills and research exposure, students learn to investigate, analyse, and interpret scientific data.
Designed to prepare students for both academic and industrial careers, the course nurtures critical thinking and equips learners to contribute meaningfully to the scientific and healthcare communities.
With this programme, you will be able to:

1. Understand the fundamentals and application of scientific concepts and methods of microbiology.
2. Effectively contribute as an individual or team member of healthcare delivery system and in managing infectious diseases.
3. Efficiently comprehend & design scientific documentation, write case studies, research projects, make presentation, and communicate.
4. Pursue higher studies in diverse areas of biological sciences or benefit from the opportunities created through entrepreneurship, and startups.
5. Understand and commit to professional & research ethics, and responsibilities.

Employment Opportunities

A microbiologist is an indispensable member of the team managing infectious diseases and forms an important part of the healthcare delivery system. Microbiology is also a compulsory part of the food & beverage and pharmaceutical industry, soil & agriculture, environmental pollution, and preparation of fermented products.
Our students go through internships, guest lectures, group projects, industrial visits etc. so that they can apply their knowledge in practical settings & gain better understanding of industries. Overall, these experiences help students understand the corporate world operations & develop the competencies required to succeed in the field.

Employment Opportunities

Clinical Research Associate, Biomedical Scientist, Microbiologist, Pharmacologist, Ecologist, Food Technologist, Medical Technologist, Quality Control Technologist, Physician Associate etc.

Eligibility

The candidate must have passed 10+2, i.e., C.B.S.E./ I.S.C./ Intermediate Board examination or its equivalent, after a period of 12 years of study, the last two years of such study, comprising Physics, Chemistry, Biology and English from recognised board. The candidate must have passed in the subjects of Physics, Chemistry, Biology and English individually and must have aggregate in Physics, Chemistry and Biology taken together.

Duration

Three Years (6 Semesters) for B.Sc. Microbiology
Four Years (8 Semesters) for B.Sc. (Hons.) Microbiology | B.Sc. (Hons. with Research) Microbiology

B.Sc. Biotechnology | B.Sc. (Hons.) Biotechnology | B.Sc. (Hons. with Research) Biotechnology

The three-year Bachelor of Science (Hons.) program in Biotechnology offered by SBS is a unique combination of biology & technology. The programme equips students with advanced knowledge in the field & its various applications in areas such as agriculture, environmental management & industrial processes. Throughout the program the students will gain hands-on experience in using modern tools & techniques and will be exposed to state-of-the-art laboratory facilities for practical training.
The curriculum covers a range of subjects including molecular biology, microbiology, biochemistry, genetics, cell biology, and bioprocessing etc. The students also get opportunities to participate in research projects either individually or as a part of team, guest lectures, industrial visits, which provides them with valuable experience in the application of biotechnology principles in real-world situations.

Biotechnology, an offshoot of Biochemistry/ Plant & Animal Biology, includes microbiology, molecular biology, genetics, chemistry, biophysics, chemical & biochemical engineering. Our programme also helps students develop skills required in the use and application of standard software for Bioinformatics. It also enables a graduate student to acquire a range of subject related key skills to carry out independent scientific work/ interdisciplinary research, or venture into entrepreneurship.

With this programme, you will be able to

1. Understand the fundamentals and build advanced knowledge of biotechnology and its different branches.
2. Carry out basic instrumentation with respect to DNA, isolation, purification, quantification and analysis.
3. Build and apply capabilities of traditional and modern tools & techniques, new technologies in the fields of biotechnology.
4. Efficiently comprehend & design scientific documentation, write case studies, research projects, make presentation, and communicate.
5. Carry out independent scientific work/ interdisciplinary research, or venture into entrepreneurship.
6. Pursue higher studies in diverse areas of biotechnology.
7. Effectively contribute as an individual or team member in diverse areas of biotechnology sector.
8. Understand and commit to professional & research ethics, and responsibilities.

Placement

The placement cell helps students prepare for & secure employment after graduation. They assist the students in framing their CVs, Personality Development, Group Discussions & also developing their soft skills to develop their overall professional persona.
They also establish connections with reputed firms and organisations to provide students with job opportunities & Internships.

Employment Opportunities

Opportunities are available in public funded laboratories and in the field of drug and pharmaceutical research, chemicals, environment control, waste management, energy, food processing, bio-processing, healthcare, agriculture & fisheries, forensic studies and bio-farming. Lab Technicians, Microbiologists, Bioproduction Operators, Biomanufacturing Specialists, Epidemiologists, Biotech Analysts, Research Assistants, Associate Biotechnologists, Food Technologists, Food Safety Officers, etc.

Eligibility

The candidate must have passed 10+2, i.e., C.B.S.E./ I.S.C./ Intermediate Board examination or its equivalent, after a period of 12 years of study, the last two years of such study, comprising Physics, Chemistry, Biology and English from recognised board. The candidate must have passed in the subjects of Physics, Chemistry, Biology and English individually and must have aggregate in Physics, Chemistry and Biology taken together.

Duration

Three Years for B.Sc. Biotechnology
Four Years for B.Sc. (Hons.) Biotechnology | B.Sc. (Hons. with Research) Biotechnology.

B.Sc./ B.Sc. (Hons)/ B.Sc. (Hons) with Research in Food Science & Technology

Introduction

The B.Sc./B.Sc. (Hons) Food Science &Technology program is relevant to young students/professionals who are looking to develop their analytical and research skills regarding important issues in the environment. Food scientists and technologists are versatile,

interdisciplinary, and collaborative practitioners in a profession at the crossroads of scientific and technological developments. As the food system has drastically changed, from one centered around family food production on individual farms and home food preservation to the modern system of today, most people are not connected to their food nor are they familiar with agricultural production and food manufacturing designed for better food safety and quality. The course has been designed to meet the demand of growing needs of professionals in the fields of environment management, environment laws, environment governance and policy, impact assessment, natural resource management, pollution control, etc.

Objectives of the Programme

The course in Food Science and Technology aims to provide students with a comprehensive understanding of the scientific principles and concepts governing food production, processing, preservation, and safety. The objectives include studying food composition, processing techniques, and preservation methods, as well as ensuring food safety and quality. Students will explore food engineering, product development, and innovation, while also learning about food microbiology and regulations. Problem-solving and critical thinking skills are developed through practical assignments, and the importance of sustainability and food security is emphasised. Overall, the course aims to equip students with the knowledge and skills needed for a career in the food industry.

Eligibility

Candidates seeking admission to the B.Sc. Food Science & Technology, B.Sc. (Hons.) Food Science & Technology, or B.Sc. Food Science & Technology with Research must have completed Higher Secondary or Intermediate education with a biological or science subject from a recognised National or State Board. A minimum aggregate of 50% marks is required, with relaxation for SC/ST, OBC, and other reserved categories as per university norms.

Duration

Three Years for B.Sc. Food Science and Technology
Four Years for B.Sc. (Hons.) Food Science and Technology
Four Years for B.Sc. (Hons) Food Science and Technology with Research

Employment Opportunities

Upon successful completion of the course, graduates are expected to branch out into different paths of seeking advanced research-based knowledge, professional employment, or entrepreneurship that they find fulfilling. Besides industries, they can go for PhD programme/Research in premier Institutes, Colleges and Universities after completing 4 year/8 Semester BSc (Hons) with Research in Food Science and Technology. The list below provides a synoptic overview of career paths

- Industry (Food Scientist, Sensory Scientist, Production Manager, Food Packing Manager, Food Development Manager).
- Government and Business Sector (Food Quality Manager, Food Production Planner, Consultant, Analysts) .
- Universities, Colleges, and Research Institutes (Teaching and Research) .
- Non-governmental Organizations at National and International Levels .
- Develop as sustainability managers to guide manufacturing industries, non-government organisations (national and international), policy-making bodies.
- Dietician.
- Food technologist: Production/Operation/ QA/QC.
- Dietician.
- Food technologist: Production/Operation/ QA/QC.
- R&D: New Product & Process Development.
- Marketing & Sales, Business Development & Marketing Analysis.
- Procurement & Supply chain management.

Types of companies with Employment Opportunities

- Corporate food manufacturing companies
- Food research laboratories

Postgraduate Programme

M.Sc. Microbiology

M.Sc. Microbiology at the School of Bio Sciences is a focused two-year postgraduate programme that offers a deep dive into the world of microorganisms—viruses, bacteria, fungi—and their interactions with the environment. Blending biology and chemistry, the curriculum integrates strong theoretical foundations with rigorous hands-on laboratory training. Students gain expertise in microbial physiology, virology, immunology, pharmaceutical biology, microbial genetics, food microbial technology, and more. A learner-centric pedagogy, enriched with research projects, internships,

industry visits, and expert talks, empowers students to apply microbiological principles in real-world settings. Supported by a robust industry-academia interface, the programme equips graduates with the skills needed to thrive in healthcare, biotechnology, research, and academia.

Specialisations

- Medical Microbiology
- Environmental Microbiology
- Industrial Microbiology
- Soil and Agricultural Microbiology
- Pharmaceutical Microbiology
- Food and Dairy Microbiology

With this programme, you will be able to

1. Understand and apply bimolecular knowledge and analytical skills at an advanced level.
2. Acquire extensive research experience and develop deep understanding in the specialist area of microbiology and broad understanding of molecular Bio Sciences.
3. Effectively contribute as an individual or team member in R&D, food biosecurity, health, and environmental sustainability.
4. Efficiently comprehend & design scientific documentation, write case studies, research projects, make presentations, and communicate.
5. Develop professional skills suitable for the associated industries, startups, entrepreneurship etc.
6. Understand and commit to professional & research ethics, and responsibilities.

Employment Opportunities

Opportunities are available in pharmacy, medicine, clinical research, agriculture, food, nanotechnology, and biochemical technology. Students can also find opportunities in industries/sectors dealing in cosmetics & toiletries, food & beverage production, pharmaceutical industries, hospitality, government legal bodies i.e., public health, grant management, military, research & development, etc.

Students after graduating can work as quality control officers, quality assurance officers (microbiology), safety officers, scientists, academicians, journal editorial staff/science writers, food safety & sanitary officers.

Eligibility

Candidates holding B.Sc. in Microbiology / Industrial Microbiology / Medical Microbiology / Clinical Microbiology/ Biochemistry / B.Sc. MLT/ Biotechnology / Zoology / Botany / Chemistry / Genetics / B. Pharma / Life Sciences degree with minimum 50% marks (for SC/ST/OBC candidates minimum 45% marks) in above mentioned courses are eligible to apply.

Duration

Two Years

M.Sc. Biotechnology

School of Bio Sciences offers two-year M.Sc. in Biotechnology program that focuses on the study of biological systems and organisms at molecular & cellular level. Through the combination of theoretical and practical learning students gain expertise in the understanding of field of biotechnology. The curriculum includes study of biochemistry, cell biology, molecular biology, immunology, biostatistics, genetics etc. In addition to theoretical knowledge, the students will gain practical experience through the application of latest techniques in the field and attend guest lectures, take industrial visits; participate in researches, individually or in groups, etc.

At SBS, students receive guidance and support from experienced faculty, which provides them with valuable skills and knowledge to apply in real-world scenarios. This practical experience can be beneficial for students as they prepare for careers in the biotechnological industry or further research in the field.

Specialisations

- Animal Biotechnology & Cancer Biology
- Plant Biotechnology
- Environmental & Industrial Biotechnology
- Bioprocess Engineering
- Nanotechnologies
- Pharmaceutical Biotechnology
- Medical Biotechnology
- Fermentation Biotechnology
- Genomics, Proteomics and Bioinformatics

With this programme, you will be able to

1. Gain understanding about the various fields of basics and advanced biotechnology, analyse and solve theoretical & applied biotechnological problems.
2. Acquire extensive research experience and develop deep understanding in the specialist area of biotechnology and broad understanding of molecular bio sciences.

3. Analyse and evaluate information relevant to concepts and issues of contemporary biotechnology and competency for applied research.
4. Effectively contribute as an individual or team member in R&D of both public and private sectors or other employment in biotechnology-based organisations.
5. Efficiently comprehend & design scientific documentation, write case studies, research projects, make presentations, and communicate.
6. Develop specialised skills suitable for the associated industries, startups, entrepreneurship etc.
7. Judge and evaluate legal, ethical, social, and business aspects of biotechnology-based products and services.
8. Understand and commit to professional & research ethics, and responsibilities

Employment Opportunities

Opportunities are available in drug and pharmaceutical research, public funded laboratories, chemical research, environmental control, waste management, food processing, healthcare, bio-processing industries, etc.

Students after graduating can work as
Biotech research scientist, biotech consultant, medical scientist, bioproduction operators, biomanufacturing specialist, biotech analysts, medical coders, officers in government legal bodies, i.e., public health, grant management, defence, etc.

Eligibility

Candidates holding B.Sc. in Microbiology / Industrial Microbiology / Medical Microbiology / Clinical Microbiology/ Biochemistry / B.Sc. MLT/ Biotechnology / Zoology / Botany / Chemistry / Genetics / B. Pharma / Life Sciences degree with minimum 50% marks (for SC/ST/OBC candidates minimum 45% marks) in above mentioned courses are eligible to apply.

Duration

Two Years

M.Sc. Biochemistry

M. Sc. in Biochemistry, a two-year postgraduate degree program offered by School of Biosciences is designed to provide students with extensive understanding of complex chemical processes and molecular interactions that occur in the living organisms. The program inculcates a solid foundation in the principles of biochemistry and prepares the students for life sciences industry.
The curriculum includes study of molecular biology, plant biochemistry, cell biology and physiology, bioenergetics, enzymology, genetics, biochemical dynamics, metabolism, protein structure & function, cellular signalling, etc. Students also gain practical experience by learning latest biochemistry techniques, conducting lab researches, designing experiments, etc. Learning is also enabled through guest lectures, internships, group projects and industrial visits.

Specialisations

- Medical Biochemistry & Cancer Biology
- Plant & Food Biochemistry
- Animal Biochemistry
- Nutritional Biochemistry
- Clinical Biochemistry
- Immuno Biochemistry

With this program, you will be able to

1. Understand and apply the chemical knowledge and techniques on biological processes.
2. Acquire skills to explore and formulate specific experiments aimed at understanding molecular arrangement within and related to living organisms.
3. Acquire extensive research experience and develop deep understanding in the specialist area of biochemistry and broad understanding of molecular Bio Sciences.
4. Effectively contribute as an individual or team member in R&D of both public and private sectors or other employment in biochemistry-based organisations.
5. Efficiently comprehend & design scientific documentation, write case studies, research projects, make presentations, and communicate.
6. Develop specialised skills suitable for the associated industries, startups, entrepreneurship etc.
7. Judge and evaluate legal, ethical, social and business aspects of biochemistry-based products and services.
8. Understand and commit to professional & research ethics, and responsibilities.

Employment Opportunities

Opportunities are available in medical, agriculture & fisheries, public health care, forensic environment, quality control & safety, diagnostic research &

development, etc. Students can also seek opportunities in organisations dealing in medical instruments, biotechnology, FMCG, research, chemical manufacturing, health & beauty care, etc.

Students after graduating can work as Scientists, Research Scientists, Quality Control Officers, Research Fellows, Production Executives, etc.

Eligibility

Candidates holding B.Sc. in Microbiology / Industrial Microbiology / Medical Microbiology / Clinical Microbiology/ Biochemistry / B.Sc. MLT/ Biotechnology / Zoology / Botany / Chemistry / Genetics / B. Pharma / Life Sciences degree with minimum 50% marks (for SC/ST/OBC candidates minimum 45% marks) in above mentioned courses are eligible to apply.

Duration

Two Years

M. Sc. Environmental Sciences

Introduction

The M.Sc. (Environmental Sciences) programme is relevant to young students/ professionals who are looking to develop their analytical and research skills regarding important issues in environment. The course has been designed to meet the demand of growing needs of professionals in the fields of environment management, environment laws, environment governance and policy, impact assessment, natural resource management, pollution control, etc.

The long-term research goals for the department, are to place as a research laboratory engaged in high quality research on different environmental aspects, biodiversity conservation and environmental impact assessment, development of strategies for the sustainable development at the regional, national and global level. Students would be encouraged to go beyond the classroom and conduct active action-research projects with subject experts and institutions in different fields. Lectures and classroom sessions are accompanied by on-field visits, laboratory experiments and in-plant training. These interventions are compulsory and essential aspects of the curriculum.

Objectives of the Programme

The Master's course (M.Sc.) in Environmental Sciences is necessarily to be taught in an inter-disciplinary curriculum. There is a need to strengthen the students to understand essential aspects of environmental sciences in diverse subject areas such as chemistry, biology, pollution, geosciences, atmospheric sciences, biodiversity, natural resources management and wildlife management. There is also an additional emphasis on providing opportunities to understand the integration of modern sciences such as geographical information systems (GIS) and remote sensing applications to environmental sciences. This integration has been enabled in the syllabus.

The programme aims to educate students with an objective of teaching, learning and research to promote the idea of environmental sustainability by imparting courses on ecological, social, economic, legal and ethical aspects of the environmental studies on a basic and applied interdisciplinary foundation, such as Environmental Impact Assessment, Ecotoxicology & Environmental Health, Environmental Microbiology & Biotechnology, Mountain Ecology, Wildlife Management and Conservation, Sustainable Agriculture and Organic Farming, Forestry and Habitat Management.

In our Programme the students would be empowered with multidisciplinary approach to attain and acquire skills to:

- To evolve into an original researcher and carry out cutting-edge teaching and research for understanding the complex environmental issues and problems.
- Capable of predicting the change in environment and provide scientifically and techno-economically feasible and socially acceptable solutions.
- To hone the skills to become sustainability managers and guide different industries, non-government organisations at national and international level, strategic policy-making bodies.
- Act as a facilitator to bridge the gap between science and society to achieve ecological restoration, conservation and management of biodiversity.
- To be an expert in research and communication within industries working with environmentally benign products, improved waste handling, and development of sustainable processes of production.
- To be a part of national and international advising, consultancy and project management companies with strong bias in environmental pollution, solutions for environmental protection, ecosystem restoration and human health.
- Capable of developing new solutions and methodologies for clean technology and bioremediation technologies to clean air, soil and water.

To capable of generation of experimental data using

various instrumental software, processing and visualisation of experimental data using statistical methods, processing software, environmental and mathematical modelling.

Eligibility

A Bachelor's degree in Science, Engineering, Agriculture Sciences, Forestry, or Veterinary Science from a recognised university with a minimum of 50% aggregate marks or a 5.0 CGPA on a 10-point scale is required.

Duration

Two Years

Employment Opportunities

Environmental Sciences is a career oriented, high demand fundamental course with applications in all applied research related to sustainable development for all, be it plants, animal, human and microbes etc. Students can peruse basic research work in research institutes or universities by qualifying various exams for research fellowships. Students can also work in educational and applied research fields. It provides opportunity to students to develop their career in the following areas:

- Industry (Environmental Impact Assessment, Sustainable Resource Management, Waste Management, Environmental Biotechnology, Eco-technology)
- Government and Business Sector (Environmental Manager, Environmental Planner, Environment Consultant, Analysts)
- Universities, Colleges and Research Institutes (Teaching and Research)
- Non-governmental Organisations at national and international levels
- Develop as sustainability managers to guide manufacturing industries, non-government organisations (national and international), policy-making bodies

M. Sc. Pharmaceutical Chemistry

Introduction

The pharma and food industries offer the maximum placement in all the branches of life sciences especially, Biotechnology/ Biochemistry/ Microbiology. Above all there is a high demand for skilled professionals as pharmaceutical chemists/researcher/scientist for innovative medicines, vaccines, and therapeutic agents, drug discovery, formulation, and quality control.

Students with cross-disciplinary knowledge and expertise in organic chemistry, medicinal chemistry, biochemistry, biotechnology, microbiology, and analytical techniques for working in R&D, where understanding both the chemical and biological aspects of drug action is crucial. The integration of biotechnology with pharmaceutical chemistry is becoming more important, especially in the development of biologics and gene therapies.

This multi-disciplinary course can be effectively run by the School of Biosciences with the help of Himalayan School of Pharmaceutical Sciences. This contains 60 % input from Biological Sciences and 40% from Pharmaceutical Sciences. The Postgraduate degree in MSc Pharmaceutical Chemistry holds good industrial & academic potential.

Objectives of the Programme

The M.Sc. Pharmaceutical Chemistry programme at the School of Biosciences (SBS), part of SRHU, is designed to provide students with a comprehensive understanding of the chemical and biological aspects of drug design, development, and analysis. This programme prepares graduates for various roles in the pharmaceutical and biotechnology industries Programmes typically cover:

- Organic and Inorganic Chemistry: Fundamental principles and their applications in pharmaceuticals.
- Medicinal Chemistry: Design and development of pharmaceutical agents.
- Pharmacology: Study of drug actions and interactions within biological system.
- Analytical Techniques: Methods for drug analysis and quality control.
- Biochemistry and Molecular Biology: Understanding biochemical processes related to drug action.
- Research Methodology: Training in scientific research techniques and data analysis.

Eligibility

A Bachelor's degree in a related field such as Chemistry, Pharmaceutical Sciences, Biochemistry, or Biotechnology, with a minimum percentage as specified by the institution. Candidates must have Chemistry as one of the subjects from a recognised university with 50 % marks in aggregate or 5.0 CGPA on 10-point scale.

Duration

Two Years

Employment Opportunities

- Pharmaceutical Industry: Roles in drug development, quality control, and regulatory affairs.
- Biotechnology Firms: Engaging in research and development of biopharmaceuticals.
- Clinical Research Organisations: Conducting and managing clinical trials.
- Academia and Research Institutes: Pursuing doctoral studies or engaging in teaching and research.
- Regulatory Agencies: Working in drug approval and policy-making bodies.
- Drug Development Scientist: Focusing on creating and improving pharmaceutical products.
- Quality Control Analyst: Ensuring pharmaceutical products meet regulatory standards.
- Medicinal Chemist: Designing and developing new drugs by understanding the relationship between chemical structures and biological activity.
- Clinical Research Associate: Managing and monitoring clinical trials.
- Academic Researcher/Professor: Teaching and conducting research in academic settings.
- Environmental Chemist: Studying the impact of pharmaceuticals on the environment.

Admission Process

Postgraduate Programmes

M.Sc. Biochemistry/ Biotechnology/ Microbiology/ Pharmaceutical Chemistry/ Environmental Science

Admission will be made on the basis of marks obtained in graduation and the personal counselling & interaction, conducted by the admission committee of the school, with the candidate.

Undergraduate Programmes

B.Sc. Microbiology | Biotechnolgy | Food Science & Technology

B.Sc. (Hons.) Microbiology | Biotechnology | Food Science & Technology

B.Sc. (Hons. with Research) Microbiology | Biotechnology | Food Science & Technology

Admission will be made on the basis of marks obtained in 10+2 and the personal counselling & interaction, conducted by the admission committee of the school, with the candidate.

GLOBAL COLLABORATIONS, RECOGNITIONS AND AFFILIATIONS

IIT Roorkee

Ernst & Young

NABL

Learnet Skills for Life

SGPGI

ICMR

Finland

DSIR

HANS Foundation

American Heart Association

NMC

Airports Authority of India

AIIMS

CII

Japan

ELSEVIER

LIFE @ SRHU

At SRHU, life goes beyond classrooms. It's a vibrant journey where students learn, grow, and thrive — not just academically, but also through sports, music, arts, and a wide range of co-curricular and extra-curricular activities. With ample opportunities to discover and showcase their talents, students here shape a life full of learning, friendships, and unforgettable experiences.

AWARDS & RECOGNITION

SRHU's **Shourya Saini** Wins Gold and Silver at World Championship

At Swami Rama Himalayan University (SRHU), students are empowered to chase excellence—both in academics and beyond. A shining example is Shourya Saini, who brought glory to the nation by winning Gold and Silver at the 2024 World Deaf Shooting Championship in Hanover, Germany.

SRHU stood firmly behind Shourya's journey, providing crucial support including financial aid for equipment—helping him aim for Olympic dreams with confidence.

His remarkable success in a highly competitive field of over 16 countries, is not just a personal victory, but an inspiration for every SRHU student to dream big, push boundaries, and know that their university will always support their aspirations for excellence.

PLACEMENT

ANTRIKSH RATURI

BBA, K.P. Enterprises

VANSH SHARMA

B. Tech CSE, Portway Solutions India Pvt Ltd

VIDHI SHARMA

BCA, Infosys

RITIKA NAGAR

B.Tech CSE, Realty Assistant

ANSHIKA BARTHWAL

MBA, TEACHNOOK

SRISHTI PANWAR

B.Com, WowJobs

ASHISH BHATT

B.Tech CSE, 75way Technologies Pvt Ltd

SUBHAM NEGI

B.Tech CSE, Orion Marine Concepts

280+ RECRUITERS

30+ ANCHOR RECRUITERS

Infosys

wipro

Grant Thornton

Justdial

SBI Securities
Investment aur Trust, Dono

HDB FINANCIAL SERVICES

MarshMcLennan

nagarro

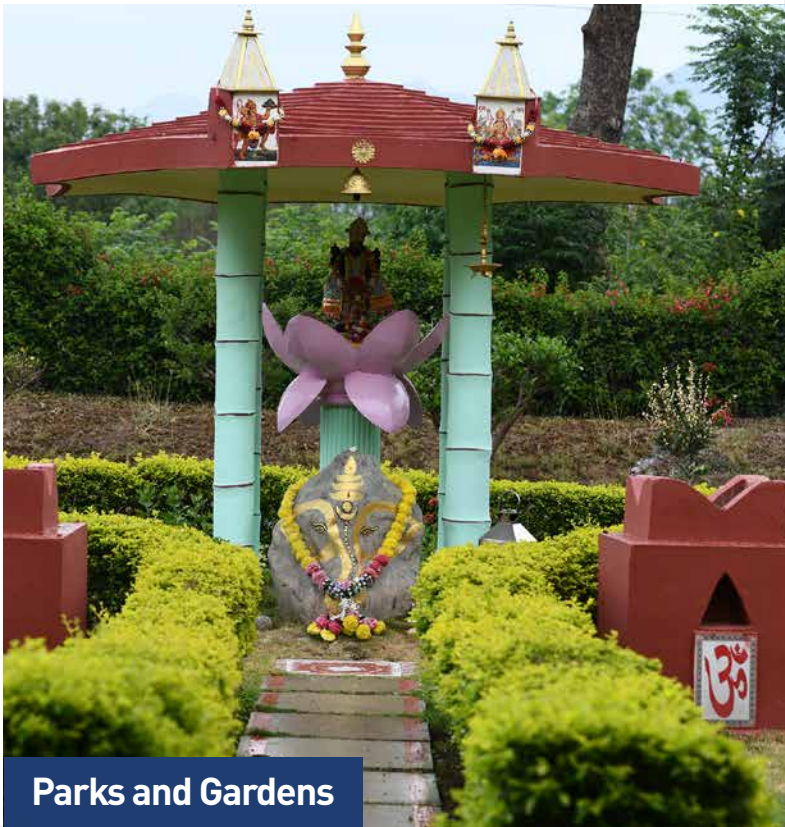
FACILITIES & AMENITIES

Our campus is safe, secure, well illuminated and comfortable. Available facilities provide convenience & comfort and facilitate successful academic & social life for students.

Hostels and Residences

Canteen and Café

Utility Center



Parks and Gardens

We believe education is more than just a destination,
it's a journey of self-discovery. A journey that challenges, inspires,
and shapes the future you envision for yourself.
With best-in-class faculty, future-ready infrastructure,
and a learning environment rooted in values and innovation.
SRHU empowers you to uncover your unique strengths,
follow your passions, and build a life of purpose.
Here, you don't just earn a degree, you discover your path.

Swami Rama Himalayan University

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