SARDAR BHAGWAN SINGH UNIVERSITY
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Balawala, Dehradun- Uttarakhand INDIA

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SCHOOL OF LIFE SCIENCES

Pioneers in
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School of Life Sciences

Unearth the Secrets life with Life Sciences

Dr. Nidhi Belwal
Associate Professor
Incharge-Department of Microbiology,
M.Sc. (Biotechnology), Ph.D. (Biotechnology)
Associate Dean (Admissions)
PE-18 Years

The Department of Microbiology offer a comprehensive curriculum designed to provide students with a deep understanding of microbiological principles, laboratory techniques, and the latest advancements in the field. Our cutting-edge research spans areas like infectious diseases, immunology, microbial biotechnology, and environmental microbiology, ensuring that our department remains at the forefront of scientific discovery. Whether you are a student seeking a robust foundation in microbiology or a researcher eager to push the boundaries of knowledge, the Department of Microbiology provides an intellectually stimulating and supportive environment for growth and discovery. We are dedicated to advancing the science of microbiology through innovative research, quality education, and hands-on training. Our faculty and students are driven by a shared passion for understanding microorganisms and their critical role in human health, the environment, and various industries. We look forward to welcoming you into our vibrant community of scholars.

Our Faculty

Prof. (Dr.) K.R. Aneja,
Honorary Professor

Dr. Jyoti Bansal
Quality Strategy Professional
Adjunct Faculty

Dr. Vibha Bhardwaj
Director of Environment
Govt of UAE
Honorary Professor

Dr. Kumud Malhotra
Professor
Chairperson UGC CMC
M.Sc. ICMR-JRF, Ph.D. PDF
PE- 33 years

Dr. Niki Nautiyal
Assistant Professor
M.Sc. (Biotechnology), Ph.D. (Genetics & Plant Breeding)/NET Qualified
PE- 11 years

Dr. Deepanshu Rana,
Assistant Professor
M.Sc. & Ph.D. Microbiology, PE-7

Dr. Rakesh Matura
Assistant Professor
M.Sc. (Biotechnology), Ph.D. (Biotechnology)
PE- 14 Years

Dr. Kartik Uniyal
Assistant Professor
M.Sc. (Biotechnology), Ph.D. (Forest Biotechnology)
PE- 11 years

Dr. Madhulika Esther Prasad
Assistant Professor
M.Sc. (Biology)Canada ,Ph.D. (Biotechnology)
PE-8 Years

Dr. Garima Singh
Assistant Professor
M.Sc. (Zoology), Ph.D.
PE- 08 Years

Dr. Deepa Devi Verma
Assistant Professor
M.Sc. (Microbiology), Ph.D.
PE- 04 Years

Dr. Santosh Kr. Karn
M.Sc. (Biotechnology), Ph.D. (Biotechnology)
Incharge-Department of Biochemistry & Biotechnology
PE-18 Years

The department was established in the year 2001 with the vision of conducting cutting-edge research and providing quality teaching and research training in basic biology and biotechnology field. Our faculty come from a range of science disciplines and work in challenging problems that excel the boundaries of science, engineering and medicine. At present, the department provides a model for an itegrated approach towards education as well as researh and development of various areas of biotechnology

Programs Offered

B.Sc. (Hons.) Microbiology*

Eligibility: Pass in 10+2 (PCB- Biology/Biotechnology/ Agricultural Sciences)

B.Sc. (Hons.) Biotechnology*

Eligibility: Pass in 10+2 Physics, Chemistry, Biology (PCB)or Physics, Chemistry, Mathematics (PCM) / Biotechnology/ Agricultural Sciences

M.Sc. Microbiology

Eligibility: B.Sc. in Microbiology/Biotechnology/Biochemistry/Genetics/ Industrial Microbiology/ Botany / Zoology / Chemistry /Medical Microbiology / B.Sc. M.L.T.

M.Sc. Biotechnology

Eligibility: B.Sc. in Microbiology / Biotechnology/Biochemistry / Genetics / Industrial Microbiology/Food Technology/ Forensic Science/Agriculture Science/ Veterinary Science/ Bioinformatics/Pharmaceutical Science/ Botany / Zoology / Chemistry / Medical Microbiology / B.Sc. M.L.T.

M.Sc. Biochemistry

Eligibility: B.Sc. or equivalent with Biochemistry/Biotechnology/ Microbiology/Food Science/CBZ/Environment Science/Chemistry/ Physiology/Veterinary Science/Forensic Science/Nutrition & Dietetics

Ph.D. Biochemistry, Biotechnology, Microbiology

Eligibility: M.Sc. in relevant stream with min.55% marks

CURRICULUM AS PER NEW EDUCATION POLICY

Program Highlights

Interdisciplinary Focus: Covers cellular processes, ecosystems, gene composition, and DNA.

Comprehensive Education: Undergraduate to Ph.D. programs with a curriculum aligned with the National Education Policy 2020.

Collaborative Research: Partnerships & MoUs with several institutions for integrated research.

Publications & Patents: 200+ publications & 05 Patents.

Projects: Completed many State/National/Internationally funded projects. Several Industry Visits, Workshops & Expert Lectures are conducted time to time to enhance the exposure of the budding professional.

State-of-the-Art Laboratories:

Central Laboratory is equipped with Laminar air flow. Laboratory Fermenter, Thermal Cycler, Gel Documentation Unit, Microfuge, UV- Vis Spectrophotometer, Deep Freezer (-20° C& -80°C), GLC, HPLC, ELISA Reader, Bioflo 110 Bioreactor, etc.

Biochemistry lab has equipments like Spectrophotometer, Hybridization Ovens, Cryostat, Electoblotter, Incubator, Oven, Digestion Apparatus, Micro-Kjeldahl Apparatus, Soxhlet Apparatus, Water Baths, Magnetic Stirrers, Hot Plates, pH Meters.

Biotechnology lab is equipped with Laminar Air Flow, Autoclave, Refrigerated Centrifuge, Electronic Balance, UV-Vis Spectrophotometer, Gel Documentation Unit, Bio-Photometer, Microscopes and Thermal Cycler.

Microbiology/Plant Pathology laboratory has equipment like Laminar Air Flow, Autoclave, Micro-Centrifuge, Refrigerated Centrifuge, Anaerobic Jars, BOD Incubator, Orbital Rotary Shaker, Rota Vaporizer, Deep Freezers (-20° C& -80°C), Binocular & Trinocular Microscopes.

Plant tissue culture facility among other has temperature & humidity - controlled plant growth chamber & inoculation chamber.

Career Opportunities: Positions in national and international organizations, biotech and pharma industries, including R&D, QA, and QC.

Summer Training: Programs at prestigious institutions like IIP, IITs, BHU, NIPER, Zydus Cadilla, and Patanjali.

SKILL ENHANCING PROGRAMS & WORKSHOPS

Educational Visit, JAMS Life Sciences

Expert talk on Patent Information and Current Awareness of Scientific Conduct

Educational Visit, Akums Haridwar

International Microorganism Day - Theme "MICROBES & FOOD"

Hitech Laboratories

Distinguished Alumni

PROF. (DR.) PIYUSH PANDEY,
M.Sc. Microbiology (1998-2000)
Assam University,
Silchar, Assam,

PROF. NIDHI CHAUHAN
M.Sc. Microbiology
(1999-2000), Professor
UPES, Dehradun

SHASHI RANJAN
M.Sc. Biotechnology (2004-06)
Vice President
(Export) Natural Herbs
and Formulations Pvt Ltd

ANJESH ARYA
M.Sc. Biochemistry
(Batch 2002-04)
Head-Quality Assurance,
Glenmark, Nashik

GAURAV MENDIRATTA
M.Sc. Biotechnology (2004-06)
Advisor
The Advanced Medical
Technology Association (AdvaMed)

UDIT CHAUHAN
M.Sc. Microbiology
(2010-12)
Director
Micronz Incorporation

GARIMA KHATI
M.Sc. Microbiology
(Batch 2017-19)
R&D Officer
Stellar Diagnostic,
Faridabad

YAGYADEEP SHARMA
M.Sc. Microbiology
(Batch 2013-15)
Sr. Faculty, Biology
Allen Coaching
Institute

SATENDRA PRATAP SINGH
M.Sc. Microbiology
(Batch 2016-18)
Research Scientist
Department of Genetic Toxicology
Ross Life Sciences Limited, Pune

NEHA CHANDEL
M.Sc. Microbiology
(Batch 2017-19)
National Institute of Cancer
Preventation & Research,
Noida, Technical Officer

SUKANYA DIXIT
B.Sc. Biotechnology
(2010-13)
Director
Phabio Enterprises
Pvt. Ltd.

The SBS Advantage:

- Well qualified & experienced faculty.
- MOU with leading 200+ bedded hospitals for clinical training & Industries
- 50+ Ultra modern high tech Research & Training Labs and OPDs.
- Fully AC Library with 30000+Books & Journals.
- 1200+ Publications, over 30+ Patents, 50+ Ph.D. Scholars.
- Excellent Placement every year in Top Notch Companies
- Plethora of Co-curricular & extra curricular activities
- NCC Girls & Boys Battallion & NSS
- On Campus Separate hostels for boys & Girls.

25+ Acres	20000+ sq. mt.	10000+ Alumni	Merit & Special Scholarships
Lush Green Campus	Academic Infrastructure	Across the Globe	Upto 5 Crore Every year

UG,PG Courses & Ph.D. Program

- **PHARMACEUTICAL SCIENCES**
  D.Pharm., B.Pharm., M. Pharm
- **MEDICAL LAB TECHNOLOGY**
  B.Sc.Medical Microbiology
  B.Sc. Medical Lab Technology
- **BASIC & APPLIED SCIENCES**
  B.Sc. Hons Chemistry, B.Sc. PCM/CBZ, M.Sc.Chemistry, M.Sc. Pharmaceutical Chemistry, M.Sc. Drug Design & Development, M.Sc. Industrial Chemistry
- **PHYSIOTHERAPY**
  B.Physiotherapy, M.Physiotherapy
- **AGRICULTURAL SCIENCES**
  B.Sc.(Hons) Agriculture,
  B.Sc.(Hons) Horticulture
  M.Sc. Agronomy
- **COMPUTER SCIENCE**
  Bachelors in Computer Application BCA), BCA (Hons)
  B. Tech (Computer Science)
- **BUSINESS MANAGEMENT**
  Bachelors in Business Management (BBA), BBA (Hons)

Our Latest Achievers

ISHEETA BADHANI
M.Sc. Microbiology
Simpex Pharma

CHITRA RAWAT
M.Sc. Microbiology
Enzene Biosciences
Ltd, Pune , Trainee

SADHNA PANT
M.Sc. Microbiology
R&D Officer
Stellar Diagnostic, Faridabad

NEHA SUNDRIYAL
M.Sc. Microbiology
Sigma Softgel &
Formulation

ATUL BHATT
M.Sc. Microbiology
Sigma Softgel &
Formulation

ASTHA SINGH
M.Sc. Microbiology
Sigma Softgel &
Formulation

ASHOTOSH BHARDWAJ
M.Sc. Biotechnology
Enzene Biosciences
Pvt. Ltd., Pune

Ms. HARLEEN KAUR
M.Sc. Microbiology
CSIR-IIP, Dehradun
Associate Project Fellow

ANVITA PANDEY
M.Sc. Microbiology
Rusan Pharma

PRANITA
M.Sc. Biotechnology
Rusan Pharma

Ms. KANUPRIYA KUNIYAL
M.Sc. Biotechnology
HI Wellness Pvt Ltd.
Trainee

MANSI MAMGAIN
M.Sc. Biotechnology
Enzene Biosciences
Pvt. Ltd., Pune

Ms. KHUSHI BIJALWAN
M.Sc. Biotechnology
Oscar Medicare
Pvt. Ltd

Mr. ABHISKEK SHANDILYA
M.Sc. Biotechnology
Enzene Biosciences
Pvt. Ltd.
Trainee

Ms. ISHIKA TANWAR
B.Sc. Biotechnology (H)
HI Wellness Pvt Ltd.
Trainee

Ms. SEERAT THAPA
M.Sc. Biotechnology
Project Associate
IIP Dehradun

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& many More

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