



# SBS University

Balawala, Dehradun- Uttarakhand INDIA

**Elevate**  
Your **Career** with us

SCHOOL OF LIFE SCIENCES

**Pioneers in**  
Professional  
Education

[www.sbsuniversity.edu.in](http://www.sbsuniversity.edu.in)

## 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-16 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,**  
Academic Leader  
Honorary Professor



**Dr. T.N. Lakhanpal**  
Emeritus  
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. Ph.D. PDF  
PE- 32 years



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



**Dr. Deepanshu Rana,**  
Assistant Professor  
M.Sc. & Ph.D.  
Microbiology, PE-6



**Dr. Rakesh Matura**  
Assistant Professor  
M.Sc. (Biotechnology),  
Ph.D. (Biotechnology)  
PE- 13 Years



**Dr. Supriya Vaish**  
Assistant Professor  
M.Sc. & Ph.D.  
Microbiology, PE-9



**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-1 Year



**Dr. Garima Singh**  
Assistant Professor  
M.Sc. (Zoology), Ph.D.  
PE- 3 Years



**Dr. Deepa Devi Verma**  
Assistant Professor  
M.Sc. (Microbiology), Ph.D.  
PE- 03 Years



**Dr. Santosh Kr. Karn**  
M.Sc. (Biotechnology),  
Ph.D. & Post Doc  
(Biotechnology)  
Incharge-Department of  
Biochemistry &  
Biotechnology  
PE-16 Years

The department of Biochemistry & Biotechnology 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 integrated approach towards education as well as research 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



## 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.

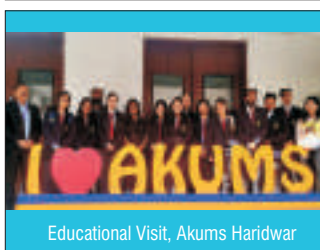
### SKILL ENHANCING PROGRAMS & WORKSHOPS



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"





## Distinguished Alumni



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



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



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



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



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



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



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



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



**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  
Prevention & Research,  
Noida, Technical Officer

## The SBS Advantage:

- Well qualified & experienced faculty.
- MOU with leading 200+ bedded hospitals for clinical training.
- 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.
- On Campus Separate hostels for boys & Girls.

**25+ Acres**

Lush Green Campus

**20000+ sq. mt.**

Academic Infrastructure

**10000+ Alumni**

Across the Globe

**Merit & Special**

Scholarships

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



**ANVITA PANDEY**  
M.Sc. Microbiology  
Rusan Pharma



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



**PRANITA**  
M.Sc. Biotechnology  
Rusan Pharma



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



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



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



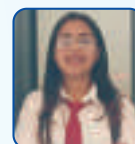
**Mr. ABHISHEK SINGH RANA**  
B.Sc. Biotechnology (H)  
HI Wellness Pvt Ltd,  
Trainee



**Mr. PRATEEK RAUTHAN**  
B.Sc. Biotechnology (H)  
HI Wellness Pvt Ltd.,  
Trainee



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



**Ms. GUMANIKA BHARDWAJ**  
M.Sc. Biotechnology  
Enzene Biosciences Pvt. Ltd.  
Trainee

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